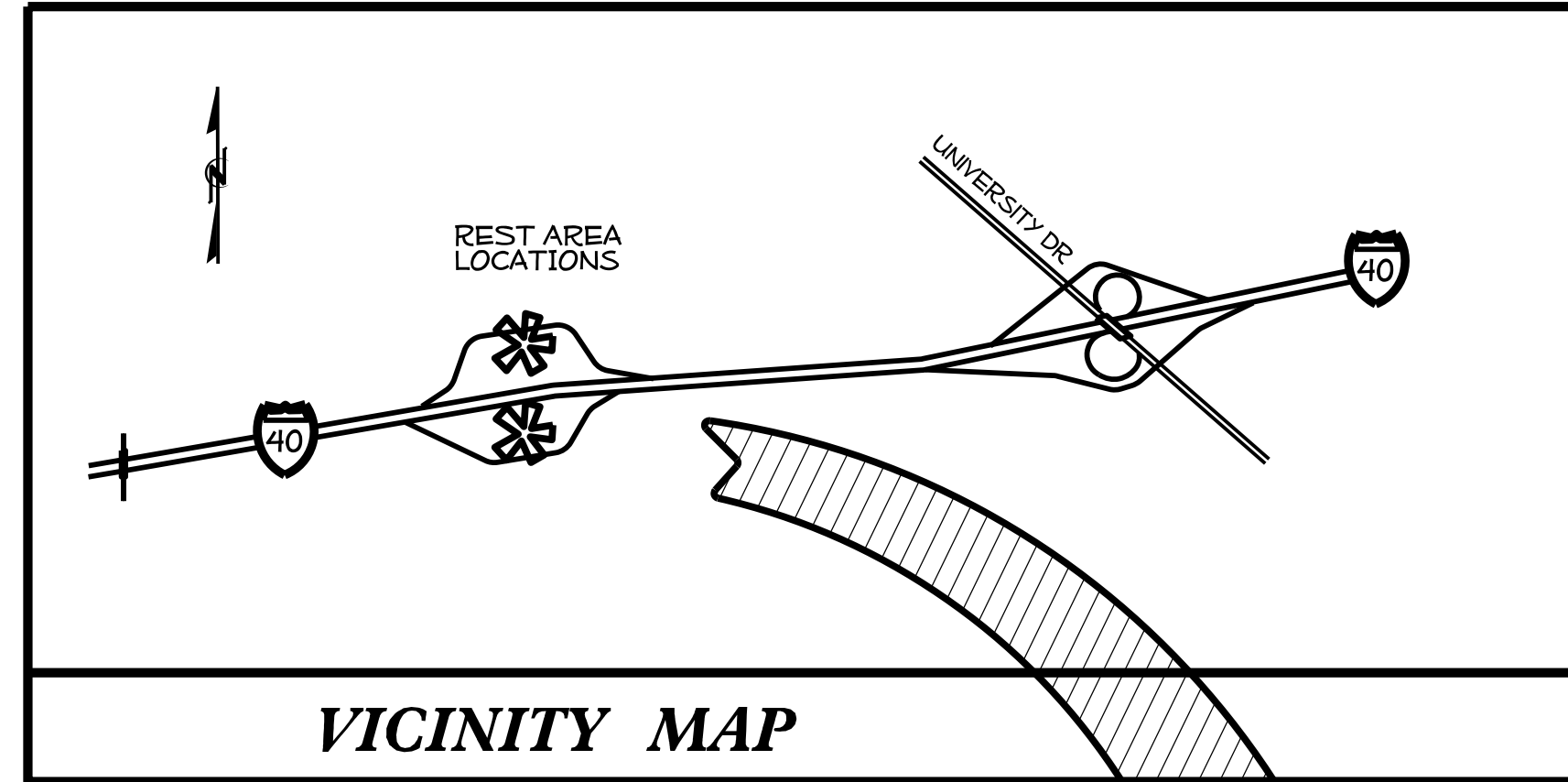
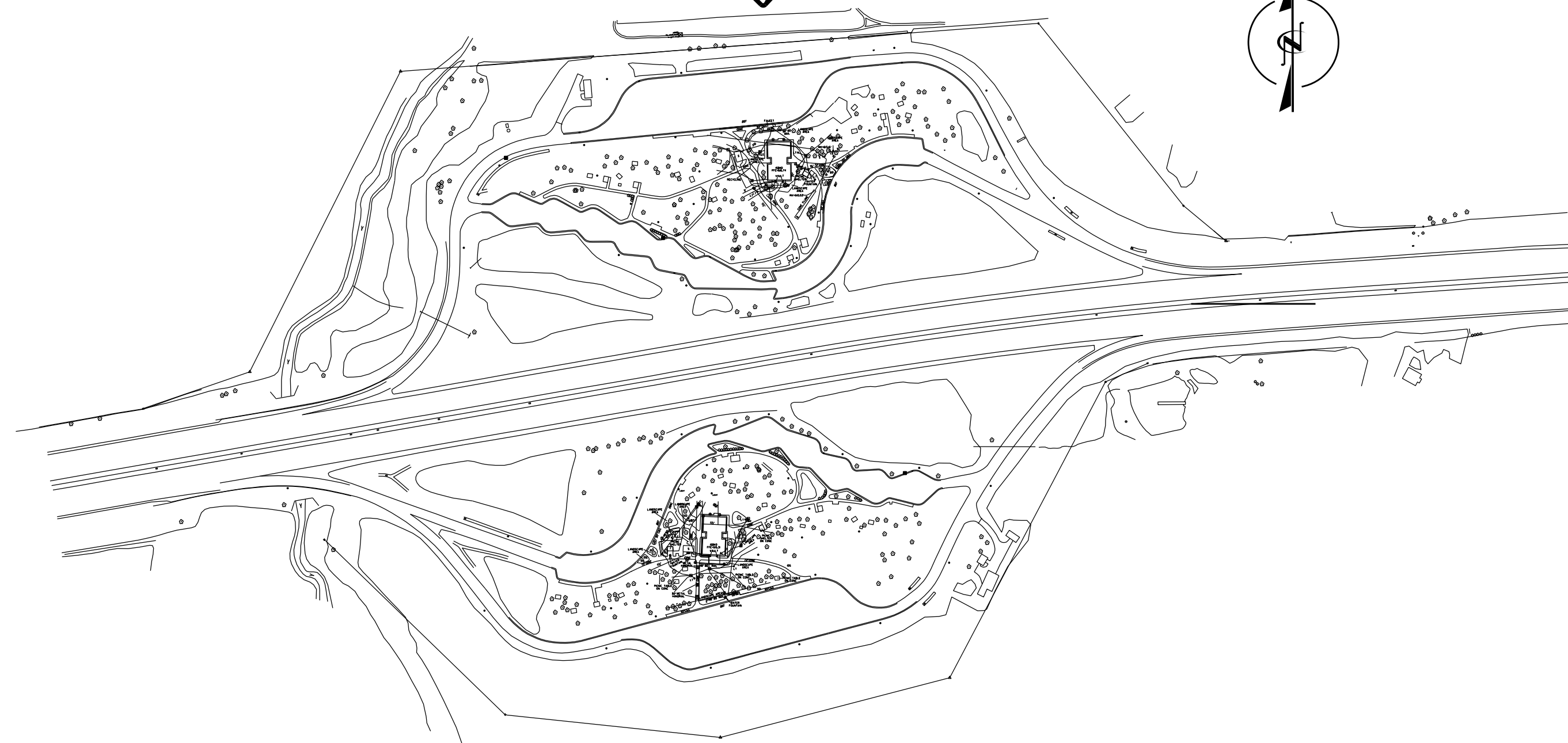


Contract : *Alamance County – I-40 Rest Areas*



VICINITY MAP



# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## ALAMANCE COUNTY

### INTERSTATE REST AREA

*Location: I-40, 1 Mile West of University Dr., near Elon, NC*

*Type of Work: Site Development and Vending Bldg. Construction*

#### INDEX OF SHEETS SITE DEVELOPMENT & ARCHITECTURAL PLANS

##### LT TITLE SHEET

##### SITE DEVELOPMENT PLANS

LT-01 SITE DEVELOPMENT SUMMARY OF QUANTITIES  
L-01 SBL SITE PLAN  
L-02 NBL SITE PLAN  
L-03 SBL DEMO & STAGING PLAN  
L-04 NBL DEMO & STAGING PLAN  
LG-01 SBL GRADING & DRAINAGE PLAN  
LG-02 NBL GRADING & DRAINAGE PLAN  
LL-01 SBL LAYOUT & DIMENSION PLAN  
LL-02 NBL LAYOUT & DIMENSION PLAN  
LH-01 SBL HARDSCAPE PLAN  
LH-02 NBL HARDSCAPE PLAN  
LP-01 SBL LANDSCAPE PLAN  
LP-02 NBL LANDSCAPE PLAN  
W-1 SBL SEGMENTAL RETAINING WALL  
W-2 NBL SBL RETAINING WALL  
LD-01 PAVEMENT DETAILS  
LD-02 SBL WATERFEATURE DETAIL  
LD-03 NBL WATERFEATURE DETAIL  
LD-04 DRAINAGE DETAILS  
LD-05 FLAGPOLE & FENCE DETAILS  
LD-06 PLANTING DETAILS

##### ARCHITECTURAL PLANS

T1 TITLE SHEET  
T2 BUILDING CODE SUMMARY

S1 FOUNDATION PLAN; FOUNDATION DETAILS  
S2 FRAMING PLAN; FRAMING DETAILS  
A1.1 FLOOR PLAN; REFLECTED CEILING PLAN;  
ROOF PLAN & DETAILS  
A2.1 EXTERIOR ELEVATIONS  
A2.2 EXISTING BUILDING ELEVATION & DETAILS  
A1.3 ROOF PLAN  
A2.1 EXTERIOR ELEVATIONS  
A3.1 BUILDING SECTIONS  
A3.2 WALL SECTIONS & DETAILS  
A4.1 ROOM FINISH & DOOR SCHEDULES; DOOR ELEVATIONS;  
HEAD, JAMB & SILL DETAILS

P1 PLUMBING PLAN  
M1 HVAC PLAN  
E1 ELECTRICAL DETAILS/SPECIFICATIONS  
E2 ELECTRICAL PLANS

U1 NBL UTILITY PLAN  
U2 SBL UTILITY PLAN  
U3 UTILITY DETAILS


Rest Area & Site Development	Architectural/Engineering		
<i>Roadside Environmental Unit</i>	<i>Facilities Management – Design</i>	Mechanical/Elec/Plumb.:	
1557 MAIL SERVICE CENTER RALEIGH, NORTH CAROLINA 27699-1557 OFFICE (919) 707-2920 FAX (919) 715-2554	1525 MAIL SERVICE CENTER RALEIGH, NORTH CAROLINA 27699-1525 OFFICE (919) 707-4540 FAX (919) 715-0399	BURKE DESIGN GROUP 305-109 DURHAM DRIVE RALEIGH, NC 27603 (919)618-0717	

STATE NC	T.J.P. #	SHEET # 1 of 1
WBS #	F.A. Project #	Description
		P.E.
		RW
3707.3.23		CONST.

North Carolina Department of Transportation

Division of Highways

1 South Wilmington Street Raleigh, North Carolina



Plan :

I-40

Alamance Co. Rest Areas

Plans Drawn By:	KOPETSKY
Scale	n/a
Date	3 / 5 / 15
Letting Date	
2012 Standard Specifications	
Sheet Description	TITLE SHEET
Sheet #	LT

Contract : *Alamance County – I-40 Rest Areas*

*LINE  
ITEMS*

Line No.	Sec	DESCRIPTION	QTY	UNIT
1	SP	Mulch for Planting	200	CY
2	SP	Water for Planting	120	M/G
3	SP	Seeding and Mulching	2	ACR
4	SP	Temporary Construction Fence	1200	LF
5	SP	Pre emergence Herbicidal Treatment	1,800	SY
6	SP	Post emergence Herbicidal Treatment	1,800	SY
7	SP	Sodding	610	SY
8	SP	Topsoil	150	CY
9	SP	River Stone	3	TON
10	SP	Split Rail Fence	170	LF
11	SP	4" Concrete Sidewalk	200	SY
12	SP	Permeable Pavers	13,000	SF
13	SP	9" Concrete Border	10	CY
14	SP	Landscape Metal Edging	200	LF
15	SP	3" PVC Sleeve	200	LF
16	SP	SBL Stormwater Drainage System	1	LS
17	SP	NBL Stormwater Drainage System	1	LS
18	SP	SBL Water Feature	1	LS
19	SP	NBL Water Feature	1	LS
20	SP	SBL Landscape and Site Grading	1	LS
21	SP	NBL Landscape and Site Grading	1	LS
22	SP	Segmental Gravity Retaining Walls	300	SF
23	SP	MSE Retaining Walls	550	SF
24	SP	Picnic Table	2	EA
25	SP	Park Bench	9	EA
26	SP	SBL Site Demolition	1	LS
27	SP	NBL Site Demolition	1	LS
28	SP	Placement of Boulders	21	EA
29	SP	SBL Landscape Planting	1	LS
30	SP	NBL Landscape Planting	1	LS
31	SP	Relocate Newspaper Box	2	EA
32	SP	Ornamental Tree Lights	1	LS
33	235	Unclassified Excavation	500	CY
34	230	Borrow Excavation	300	CY
35	SP	Placement of Boulders	21	EA
36	1610	Sediment Control Stone	2	TON
37	1632	1/4" Hardware Cloth	200	LF
38	1605	Temporary Silt Fence	200	LF
39	SP	Tree Protection Fence	400	LF
40	SP	SBL Vending Building Construction	1	LS
41	SP	NBL Vending Building Construction	1	LS
42	SP	SBL Irrigation (ADD ALTERNATE)	1	LS
43	SP	NBL Irrigation (ADD ALTERNATE)	1	LS

*STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS*

*ALAMANCE COUNTY*

*INTERSTATE REST AREA*

*Location: I-40, 1 Mile West of University Dr., near Elon, NC*

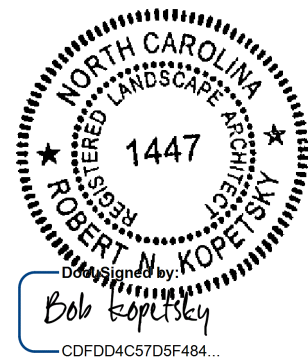
*Type of Work: Site Development Plans*

*LANDSCAPE PLANTS*

SBL QTY.	NBL QTY.	UNIT	KEY	BOTANICAL NAME	COMMON NAME	FURNISH	REMARKS	
Trees								
0	1	EA	AS	<i>Acer palmatum 'Sango Kaku'</i>	Sango Kaku Japanese Maple	6-8', B&B/Cont		
4	1	EA	CC	<i>Cercis canadensis 'Royal White'</i>	Royal White Redbud	6-8', B&B		
2	0	EA	CF	<i>Cornus florida 'Cherokee Chief'</i>	Cherokee Chief Flowering Dogwood	6-8', B&B		
0	2	EA	IN	<i>Ilex x 'Nellie R Stevens'</i>	Nellie R Stevens Holly	6-8', B&B		
5	6	EA	PK	<i>Prunus serrulata 'Kwanzan'</i>	Kwanzan Cherry	8-10', 1.5 - 1.75" cal. B&B		
3	2	EA	QS	<i>Quercus shumardii</i>	Shumard Oak	16-18', 4" cal. B&B		
Shrubs								
37	8	EA	AA	<i>Azalea x 'Roblec'</i>	Autumn Carnation (Encore) Azalea	#3 Cont		
25	16	EA	AD	<i>Abelia grandiflora 'Rose Creek'</i>	Rose Creek Abelia	#3 Cont		
0	4	EA	CD	<i>Caryopteris x clandonensis 'Dark Knight'</i>	Dark Knight Bluebeard	#3 Cont	3 1/2" O.C.	
38	8	EA	CH	<i>Cephalotaxus harringtonia 'Prostrata'</i>	Spreading Japanese Yew	#3 Cont	3' O.C.	
7	4	EA	CS	<i>Camellia x 'Winter's Charm'</i>	Winter's Charm Hardy Camellia	#3 Cont	3' O.C.	
3	8	EA	DO	<i>Daphne odora 'Aureo-marginata'</i>	Variegated Winter Daphne	#3 Cont	3' O.C.	
11	10	EA	IC	<i>Ilex crenata 'Compacta'</i>	Compact Japanese Holly	#3 Cont	3' O.C.	
12	14	EA	JC	<i>Juniperus procumbens 'Nana'</i>	Dwarf Japanese Garden Juniper	#1 Cont	3' O.C.	
4	2	EA	JS	<i>Juniperus chinensis 'Spartan'</i>	Spartan Juniper	#7 Cont	4' O.C.	
2	2	EA	LC	<i>Loropetalum chinense 'Blush'</i>	Blush Loropetalum	#7 Cont	Tree Form	
48	16	EA	NG	<i>Nandina domestica 'Gulf Stream'</i>	Gulf Stream Nandina	#3 Cont	3' O.C.	
12	6	EA	RR	<i>Rosa x 'Radko'</i>	Double Knockout Red Rose	#3 Cont	3' O.C.	
Grasses								
29	10	EA	JE	<i>Juncus effusus</i>	Soft Rush	#1 Cont		
251	171	EA	LB	<i>Liriope muscari 'Big Blue'</i>	Big Blue Liriope	#1 Cont	12" O.C.	
0	59	EA	LV	<i>Liriope muscari 'Variegata'</i>	Variegated Liriope	#1 Cont	12" O.C.	
9	16	EA	MC	<i>Muhlenbergia capillaris</i>	Pink Muhly Grass	#1 Cont	12" O.C.	
0	118	EA	OJ	<i>Ophiopogon japonicus</i>	Mondo Grass	#1 Cont	12" O.C.	
32	23	EA	PS	<i>Panicum virgatum 'Squaw'</i>	Squaw Switch Grass	#3 Cont		
Perennials								
21	0	EA	DC	<i>Delosperma cooperi</i>	Hardy Ice Plant	#1 Cont	12" O.C.	
12	7	EA	EK	<i>Echinacea purpurea 'Kim's Knee High'</i>	Kim's Knee Hign Coneflower	#1 Cont	18" O.C.	
45	0	EA	HO	<i>Hemerocallis 'Orange Crush'</i>	Orange Crush Daylily	#1 Cont	2' O.C.	
6	14	EA	RG	<i>Rudbeckia fulgida 'Goldsturm'</i>	Goldsturm Black-eyed Susan	#1 Cont	12" O.C.	
0	9	EA	SA	<i>Sedum spectabile 'Autumn Joy'</i>	Autumn Joy Sedum	#1 Cont	2' O.C.	
6	0	EA	WS	<i>Echinacea purpurea 'White Swan'</i>	White Swan Coneflower	#1 Cont	18" O.C.	

Rest Area & Site Development  
*Roadside Environmental Unit*  
1557 MAIL SERVICE CENTER  
RALEIGH, NORTH CAROLINA 27699-1557  
OFFICE (919) 707-2920 FAX (919) 715-2554

Landscape Architectural Design  
*REU Aesthetic Engineering Section*  
1557 MAIL SERVICE CENTER  
RALEIGH, NORTH CAROLINA 27699-1557  
OFFICE (919) 707-2920 FAX (919) 715-2554



STATE NC T.J.P. # SHEET # 1 of 1

WBS # F.A. Project # Description

P.E. RW CONST.

3707.3.23

North Carolina Department of Transportation

Division of Highways

1 South Wilmington Street Raleigh, North Carolina

Plan : I-40 Alamance Co. Rest Areas

Plans Drawn By: KOPETSKY

Scale: n/a

Date: 3 / 5 / 15

Letting Date:

2012 Standard Specifications

Sheet Description: Site Development

Title Sheet

Sheet #: LT-01





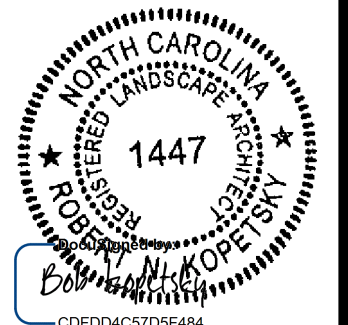


STATE NC	T.J.P. #	SHEET #
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North Carolina Department of Transportation

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1 South Wilmington Street Raleigh, North Carolina

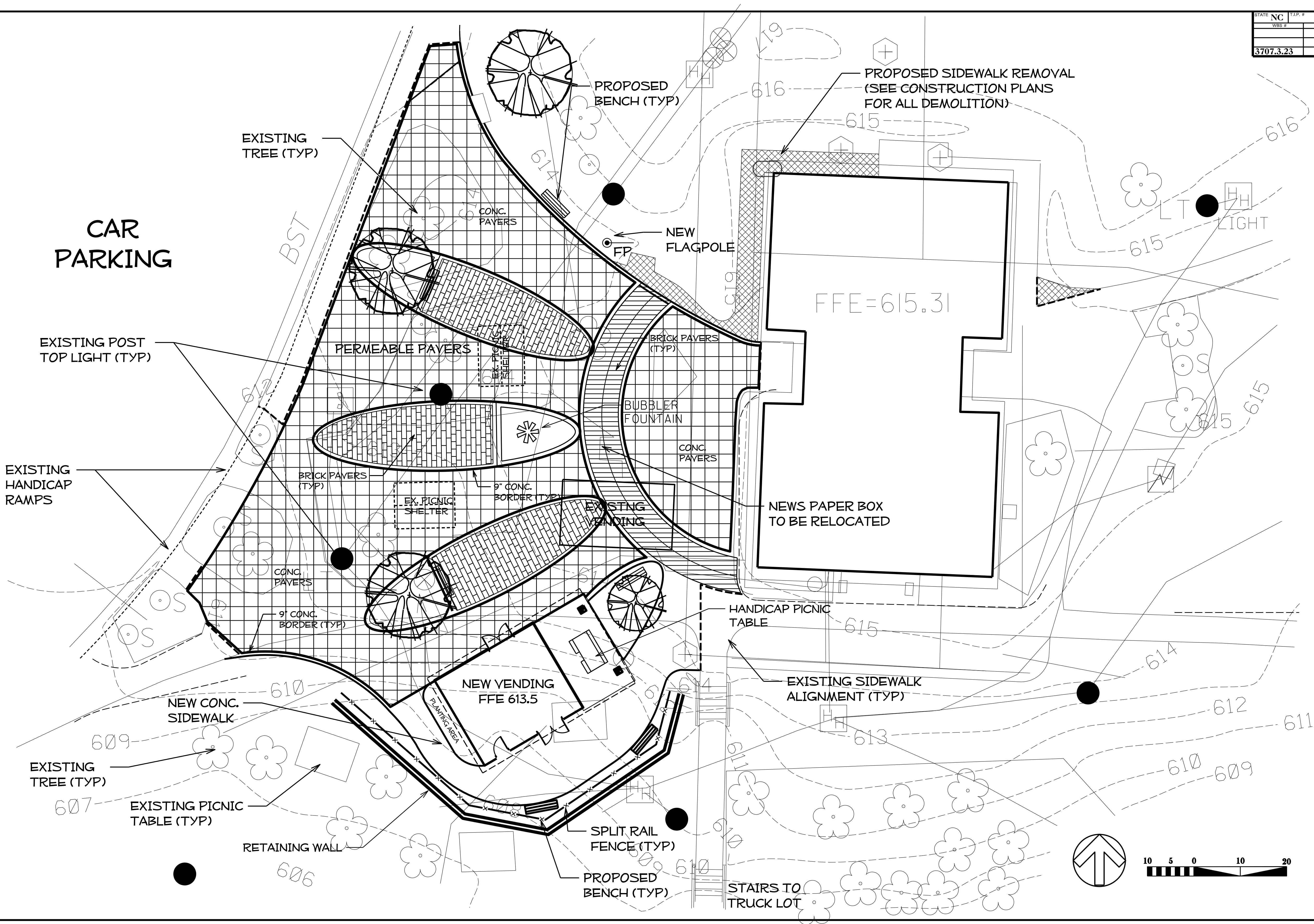


I-40

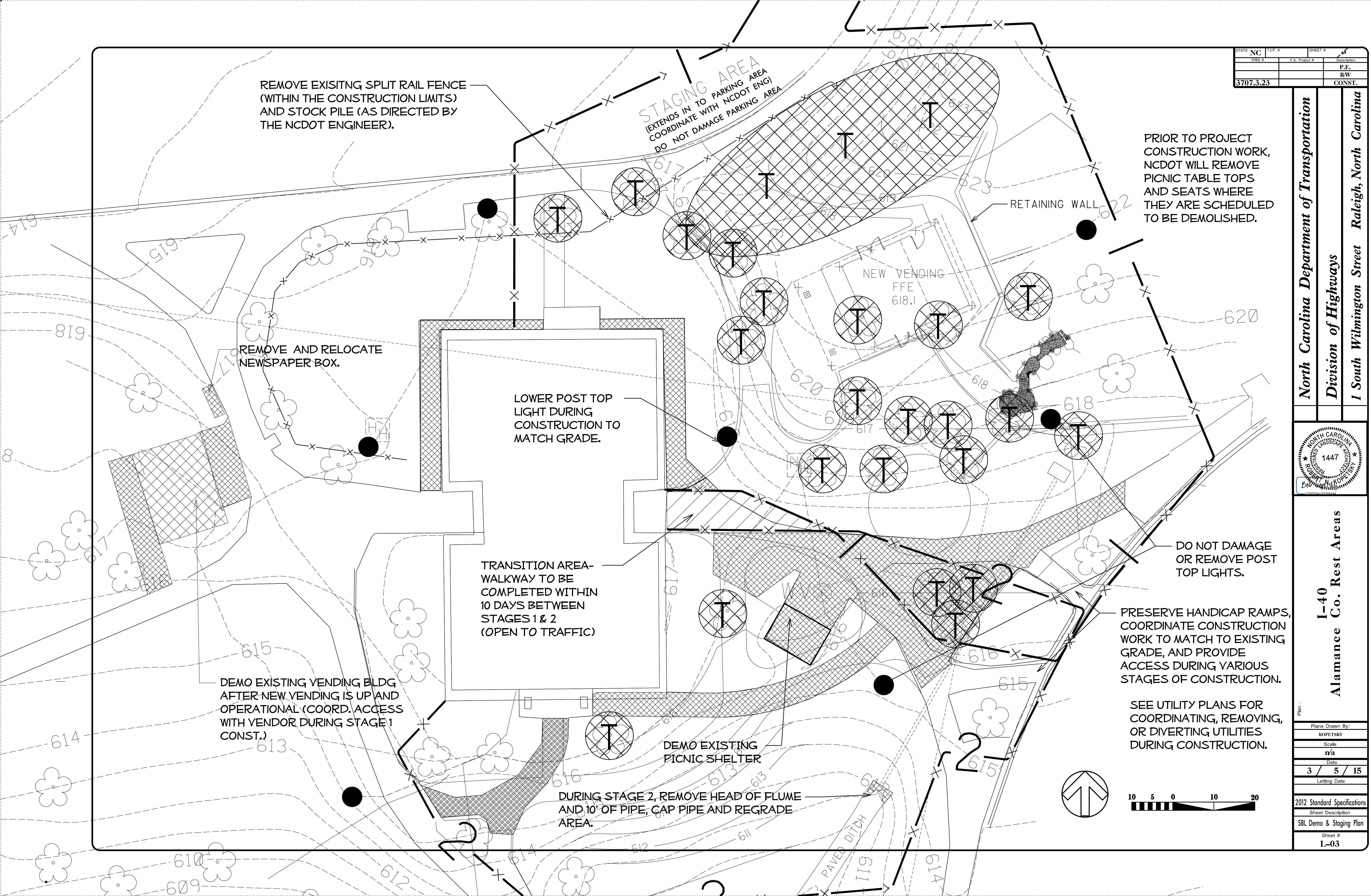
Alamance Co. Rest Areas

Plans Drawn By:
KOPETSKY
Scale
n/a
Date
3 / 5 / 15
Letting Date

2012 Standard Specifications
Sheet Description
NBL Site Plan
Sheet #
L-02







REMOVE EXISTING SPLIT RAIL FENCE (WITHIN THE CONSTRUCTION LIMITS) AND STOCK PILE (AS DIRECTED BY THE NCDOT ENGINEER).

STAGING AREA  
(EXTENDS IN TO PARKING AREA  
COORDINATE WITH NCDOT ENG)  
DO NOT DAMAGE PARKING AREA

PRIOR TO PROJECT  
CONSTRUCTION WORK,  
NCDOT WILL REMOVE  
PICNIC TABLE TOPS  
AND SEATS WHERE  
THEY ARE SCHEDULED  
TO BE DEMOLISHED.

REMOVE AND RELOCATE  
NEWSPAPER BOX.

LOWER POST TOP  
LIGHT DURING  
CONSTRUCTION TO  
MATCH GRADE.

TRANSITION AREA-  
WALKWAY TO BE  
COMPLETED WITHIN  
10 DAYS BETWEEN  
STAGES 1 & 2  
(OPEN TO TRAFFIC)

DEMO EXISTING VENDING BLDG  
AFTER NEW VENDING IS UP AND  
OPERATIONAL (COORD. ACCESS  
WITH VENDOR DURING STAGE 1  
CONST.)

DEMO EXISTING  
PICNIC SHELTER

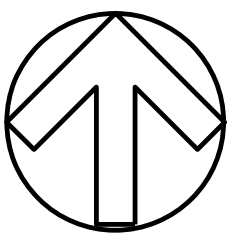
DURING STAGE 2, REMOVE HEAD OF FLUME  
AND 10' OF PIPE, CAP PIPE AND REGRADE  
AREA.

RETAINING WALL

DO NOT DAMAGE  
OR REMOVE POST  
TOP LIGHTS.

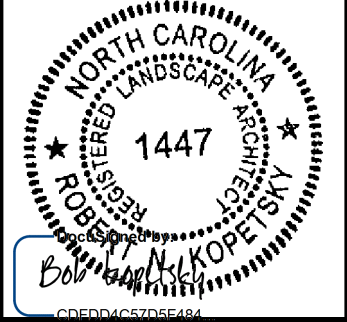
PRESERVE HANDICAP RAMPS,  
COORDINATE CONSTRUCTION  
WORK TO MATCH TO EXISTING  
GRADE, AND PROVIDE  
ACCESS DURING VARIOUS  
STAGES OF CONSTRUCTION.

SEE UTILITY PLANS FOR  
COORDINATING, REMOVING,  
OR DIVERTING UTILITIES  
DURING CONSTRUCTION.



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3707.3.23		P.E. RW CONST.

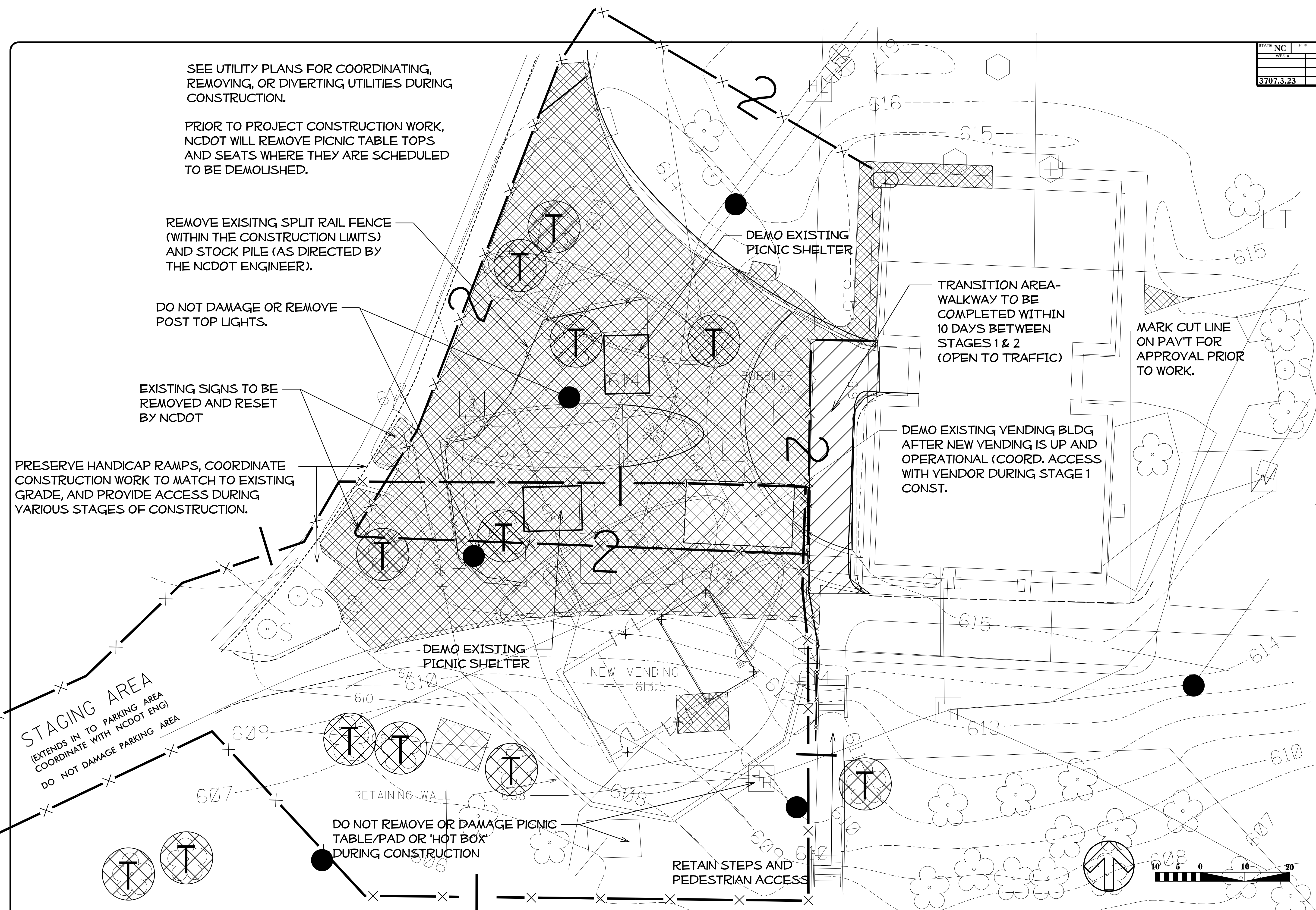
North Carolina Department of Transportation  
Division of Highways  
1 South Wilmington Street Raleigh, North Carolina



I-40  
Alamance Co. Rest Areas

Plans Drawn By:	KOPETSKY
Scale	n/a
Date	3 / 5 / 15
Letting Date	
2012 Standard Specifications	
Sheet Description	SBL Demo & Staging Plan
Sheet #	L-03





SEE UTILITY PLANS FOR COORDINATING, REMOVING, OR DIVERTING UTILITIES DURING CONSTRUCTION.

PRIOR TO PROJECT CONSTRUCTION WORK, NCDOT WILL REMOVE PICNIC TABLE TOPS AND SEATS WHERE THEY ARE SCHEDULED TO BE DEMOLISHED.

REMOVE EXISTING SPLIT RAIL FENCE (WITHIN THE CONSTRUCTION LIMITS) AND STOCK PILE (AS DIRECTED BY THE NCDOT ENGINEER).

DO NOT DAMAGE OR REMOVE POST TOP LIGHTS.

EXISTING SIGNS TO BE REMOVED AND RESET BY NCDOT

PRESERVE HANDICAP RAMPS, COORDINATE CONSTRUCTION WORK TO MATCH TO EXISTING GRADE, AND PROVIDE ACCESS DURING VARIOUS STAGES OF CONSTRUCTION.

STAGING AREA  
(EXTENDS IN TO PARKING AREA  
COORDINATE WITH NCDOT ENG)  
DO NOT DAMAGE PARKING AREA

DEMO EXISTING  
PICNIC SHELTER

NEW VENDING  
FFE-613.5

DEMO EXISTING  
PICNIC SHELTER

TRANSITION AREA-  
WALKWAY TO BE  
COMPLETED WITHIN  
10 DAYS BETWEEN  
STAGES 1 & 2  
(OPEN TO TRAFFIC)

DEMO EXISTING VENDING BLDG  
AFTER NEW VENDING IS UP AND  
OPERATIONAL (COORD. ACCESS  
WITH VENDOR DURING STAGE 1  
CONST.

MARK CUT LINE  
ON PAY'T FOR  
APPROVAL PRIOR  
TO WORK.

DO NOT REMOVE OR DAMAGE PICNIC  
TABLE/PAD OR 'HOT BOX'  
DURING CONSTRUCTION

RETAIN STEPS AND  
PEDESTRIAN ACCESS

STATE NC	T.I.P. #	SHEET #
WBS #	F.A. Project #	Description
3707.3.23		P.E. RW CONST.

North Carolina Department of Transportation

Division of Highways

1 South Wilmington Street Raleigh, North Carolina

1447

RECEIVED  
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DEPARTMENT OF  
TRANSPORTATION  
DIVISION OF HIGHWAYS  
Raleigh, NC 27601

Plan:

Plans Drawn By:  
KOPETSKY

Scale:  
n/a

Date:  
3 / 5 / 15

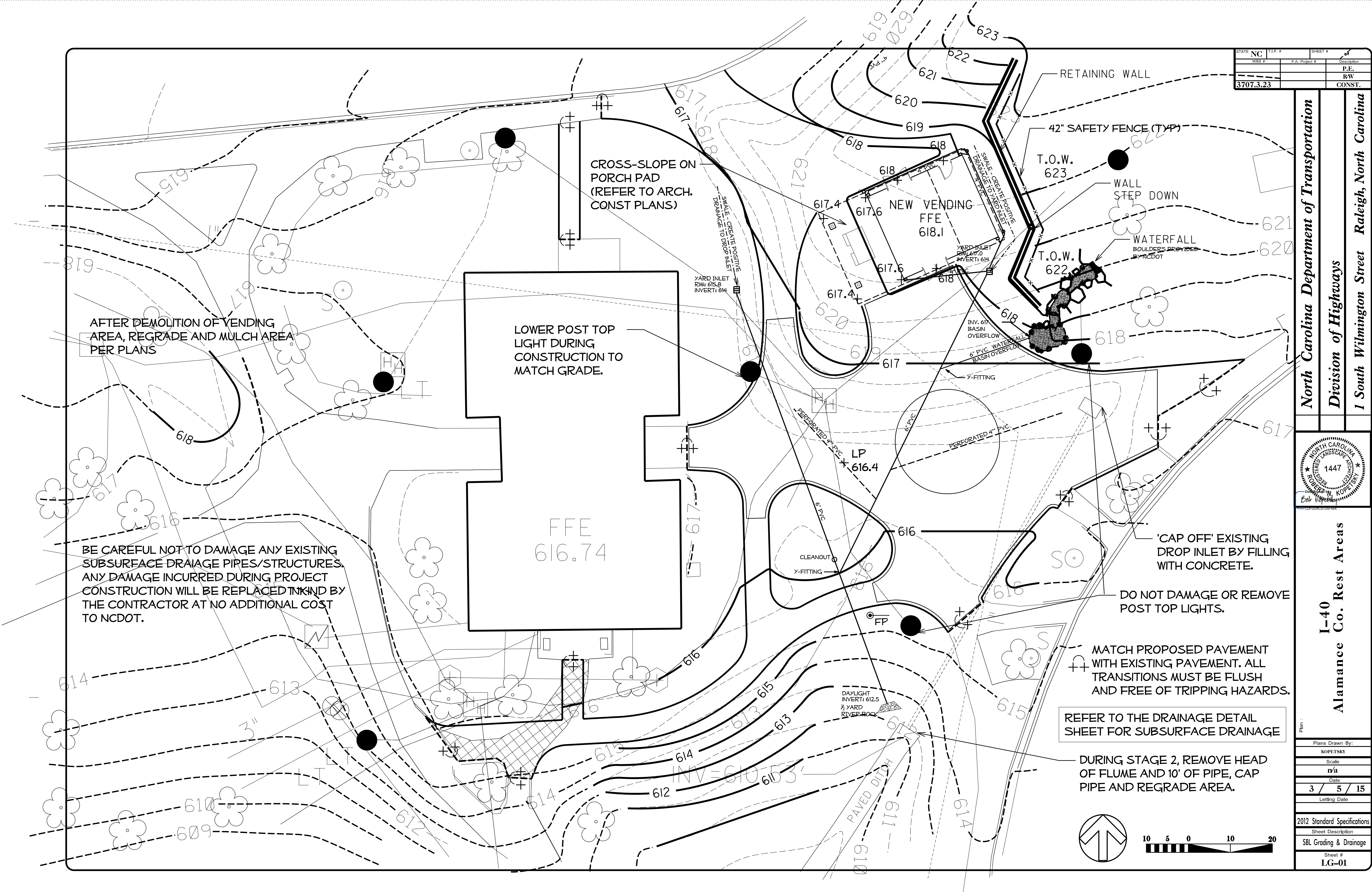
Letting Date:

2012 Standard Specifications

Sheet Description  
NBL Demo & Staging Plan

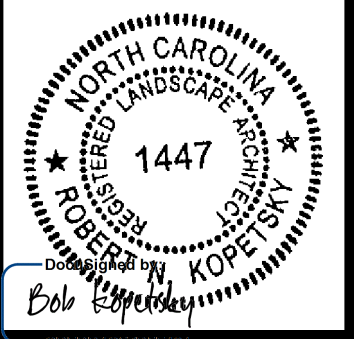
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1-04





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		CONST.

North Carolina Department of Transportation  
Division of Highways  
1 South Wilmington Street Raleigh, North Carolina



I-40  
Alamance Co. Rest Areas

Plans Drawn By:
KOPETSKY
Scale
n/a
Date
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Letting Date

2012 Standard Specifications
Sheet Description
SBL Grading & Drainage
Sheet #
LG-01



REGRADE INTERIOR OF SIDEWALK TO PROVIDE POSITIVE DRAINAGE (FOR WATER TO DISSIPATE IN ADJOINING TURF AREA).

MATCH PROPOSED PAVEMENT WITH EXISTING PAVEMENT. ALL TRANSITIONS MUST BE FLUSH AND FREE OF TRIPPING HAZARDS.

SEE UTILITY PLANS FOR COORDINATING, REMOVING, OR DIVERTING UTILITIES DURING CONSTRUCTION.

REFER TO THE DRAINAGE DETAIL SHEET FOR SUBSURFACE DRAINAGE

DO NOT DAMAGE OR REMOVE POST TOP LIGHTS.

PRESERVE HANDICAP RAMPS, COORDINATE CONSTRUCTION WORK TO MATCH TO EXISTING GRADE, AND PROVIDE ACCESS DURING VARIOUS STAGES OF CONSTRUCTION.

H/C RAMPS

OVERFLOW  
INV: 613

CROSS-SLOPE ON PORCH PAD (REFER TO ARCH. CONST PLANS)

BE CAREFUL NOT TO DAMAGE ANY EXISTING SUBSURFACE DRAIAGE PIPES/STRUCTURES. ANY DAMAGE INCURRED DURING PROJECT CONSTRUCTION WILL BE REPLACED INKIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO NCDOT.

STEP DOWN DRAIN PIPE ON BACK SIDE OF WALL AND BREACH AT SURFACE LEVEL

RETAINING WALL

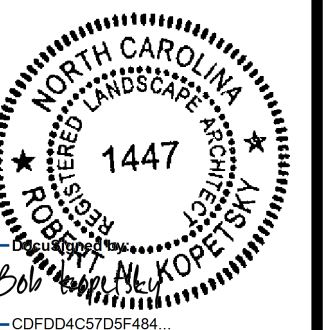
42" SAFETY FENCE (TYP)

STATE NC	T.I.P. #	SHEET #
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3707.3.23		P.E. RW CONST.

North Carolina Department of Transportation

Division of Highways

1 South Wilmington Street Raleigh, North Carolina



Alamance Co. Rest Areas

Plans Drawn By:
KOPETSKY
Scale
n/a
Date
3 / 5 / 15
Letting Date

2012 Standard Specifications
Sheet Description
NBL Grading & Drainage
Sheet #
LG-02



STATE NC	T.I.P. #	SHEET #
WBS #	F.A. Project #	Description
		P.E.
		RW
3707.3.23		CONST.

NOTES

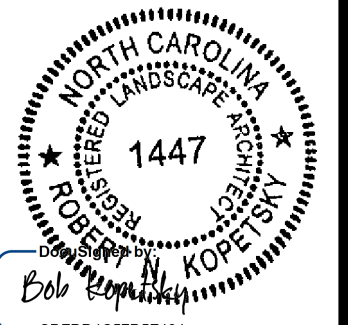
COORDINATE HARDSCAPE CONSTRUCTION WITH SITE AND BUILDING DEVELOPMENT

SIDEWALKS TO MATCH EXISTING WHERE NOTED

UNLESS OTHER WISE NOTED, SIDEWALK CROSS-SLOPES ARE 2%

SEE DETAILS FOR PLACEMENT OF FENCE ATOP RETAINING WALL

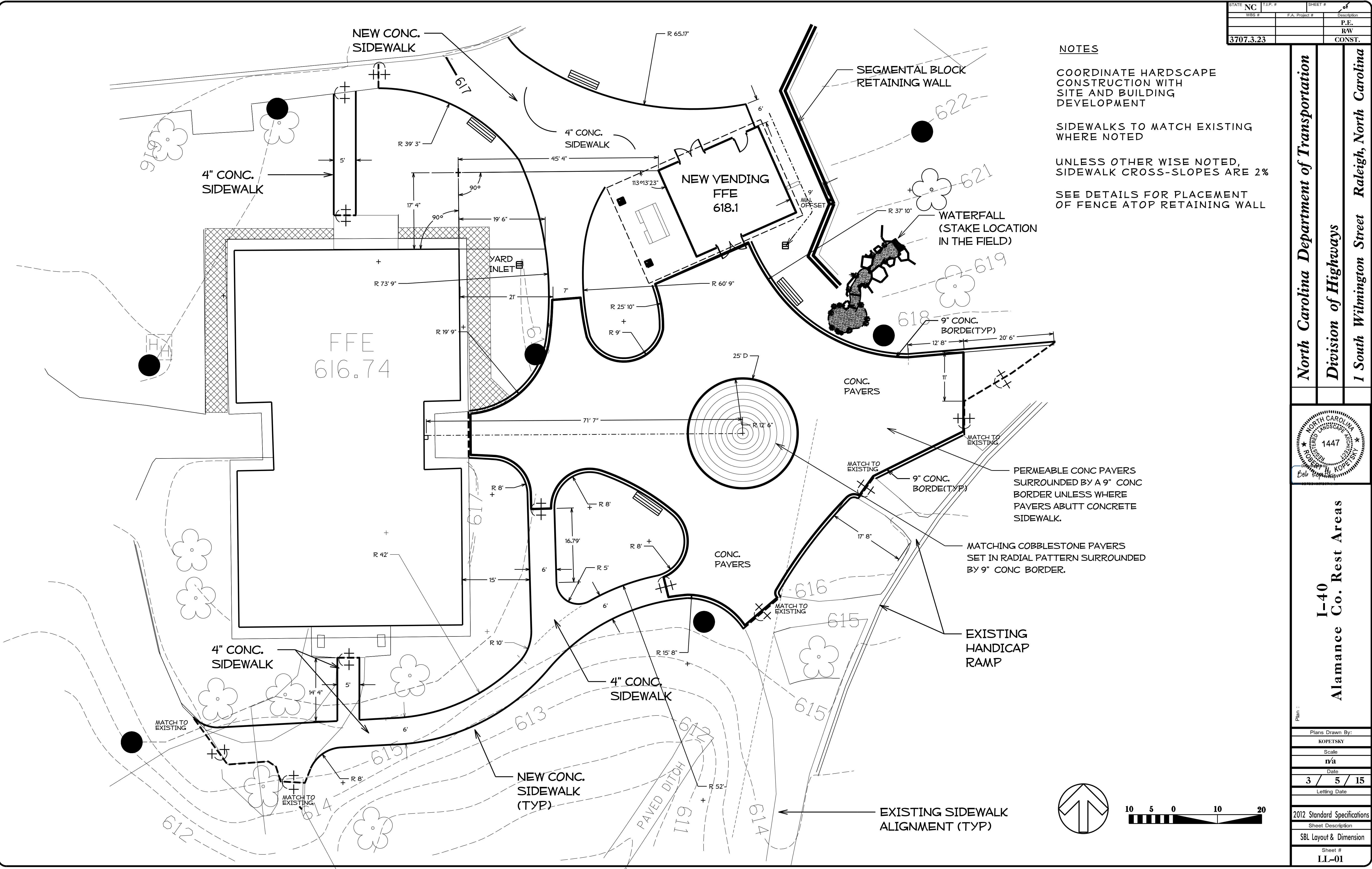
North Carolina Department of Transportation  
Division of Highways  
1 South Wilmington Street Raleigh, North Carolina



I-40  
Alamance Co. Rest Areas

Plans Drawn By:
KOPETSKY
Scale
n/a
Date
3 / 5 / 15
Letting Date

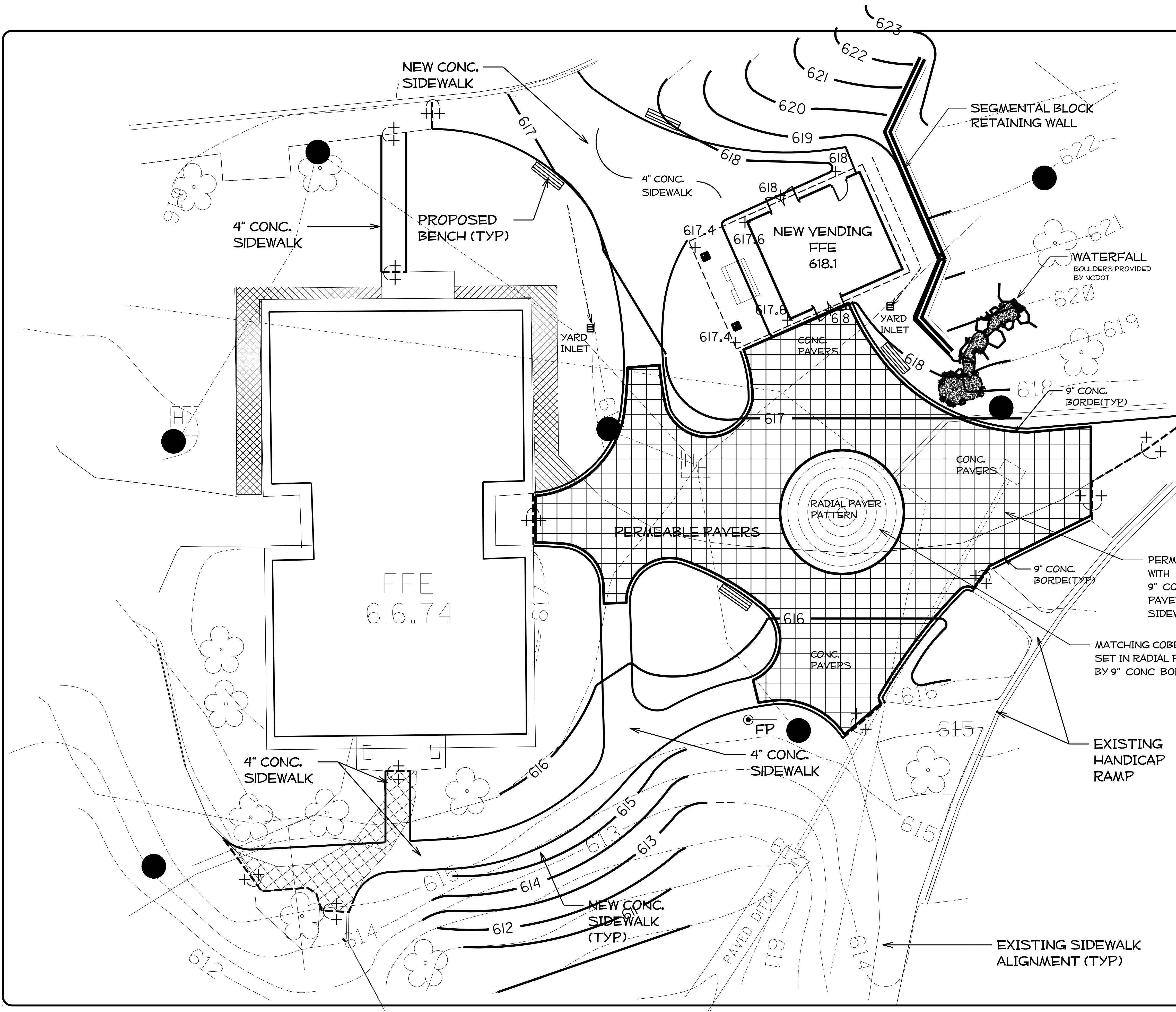
2012 Standard Specifications
Sheet Description
SBL Layout & Dimension
Sheet #
LL-01











**NOTES**

COORDINATE HARDSCAPE CONSTRUCTION WITH SITE AND BUILDING DEVELOPMENT

SIDEWALKS TO MATCH EXISTING WHERE NOTED

UNLESS OTHER WISE NOTED, SIDEWALK CROSS-SLOPES ARE 2%

SEE DETAILS FOR PLACEMENT OF FENCE ATOP RETAINING WALL

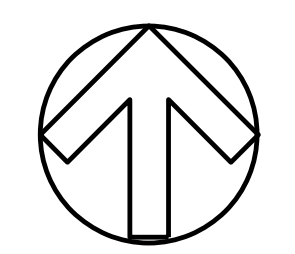
NO SIDEWALK SHALL EXCEED 5% SLOPE (ADA STANDARD)

NCDOT TO BE RESPONSIBLE FOR THE RELOCATION AND PLACEMENT OF WASTE AND RECYCLE CONTAINERS

AT THE BEGINNING OF STAGE 2 CONSTRUCTION PAVERS AT FRONT DOOR SHALL BE COMPLETED, WITHIN 10 DAYS FOR ACCESS TO FRONT DOOR. PEDESTRIAN TRAFFIC WILL BE REROUTED DURING SHORT PERIOD OF TIME TO THE REAR ENTRANCE.

PERMEABLE CONC PAVERS WITH SURROUNDED BY A 9" CONC BORDER UNLESS PAVERS ABUT CONCRETE SIDEWALK.

MATCHING COBBLESTONE PAVERS SET IN RADIAL PATTERN SURROUNDED BY 9" CONC BORDER.

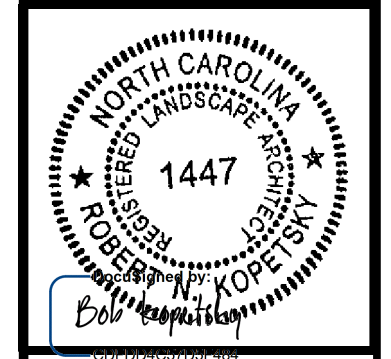


STATE NC	T.J.P. #	SHEET # of
WBS #	F.A. Project #	Description
		P.E.
		RW
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North Carolina Department of Transportation

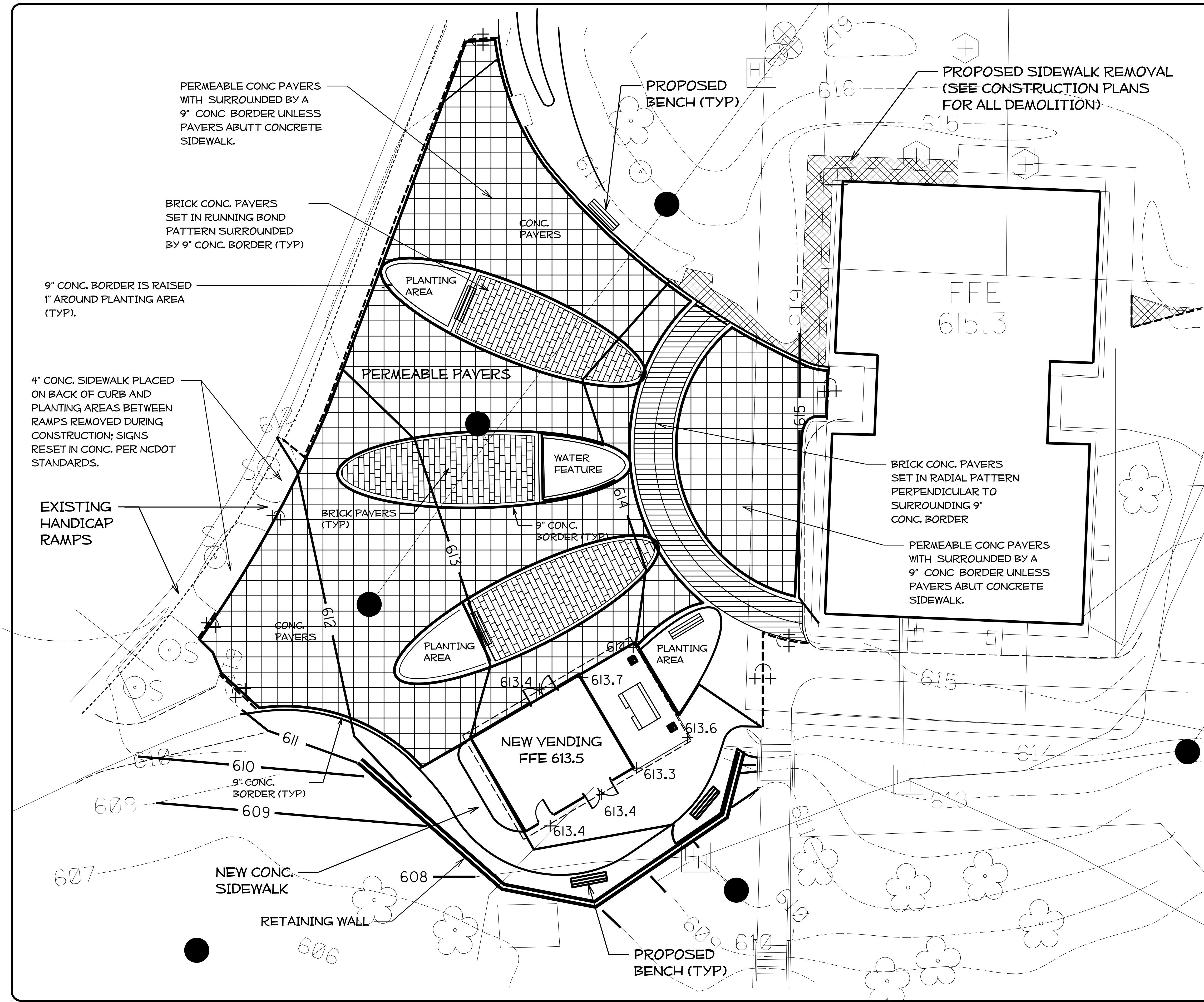
Division of Highways

1 South Wilmington Street Raleigh, North Carolina



Plan:	I-40
Plans Drawn By:	KOPETSKY
Scale:	n/a
Date:	3 / 5 / 15
Letting Date:	
2012 Standard Specifications	
Sheet Description	SBL Hardscape Plan
Sheet #	LH-01





NOTES

COORDINATE HARDSCAPE CONSTRUCTION WITH SITE AND BUILDING DEVELOPMENT

SIDEWALKS TO MATCH EXISTING WHERE NOTED

UNLESS OTHER WISE NOTED, SIDEWALK CROSS-SLOPES ARE 2%

SEE DETAILS FOR PLACEMENT OF FENCE ATOP RETAINING WALL

NO SIDEWALK SHALL EXCEED 5% SLOPE (ADA STANDARD)

NCDOT TO BE RESPONSIBLE FOR THE RELOCATION AND PLACEMENT OF WASTE AND RECYCLE CONTAINERS

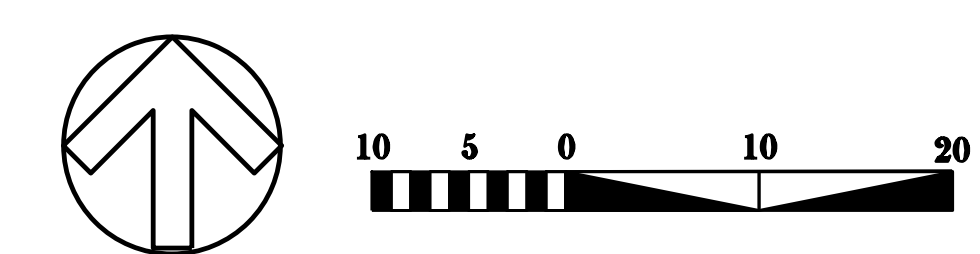
AT THE BEGINNING OF STAGE 2 CONSTRUCTION PAVERS AT FRONT DOOR SHALL BE COMPLETED, WITHIN 10 DAYS FOR ACCESS TO FRONT DOOR. PEDESTRIAN TRAFFIC WILL BE REROUTED DURING SHORT PERIOD OF TIME TO THE REAR ENTRANCE.

STATE NC	T.J.P. #	SHEET #	of
WBS #	F.A. Project #	P.E.	Description
3707.3.23		RW	CONST.

North Carolina Department of Transportation  
 Division of Highways  
 1 South Wilmington Street Raleigh, North Carolina

I-40  
 Alamance Co. Rest Areas

Plans Drawn By:	KOPETSKY
Scale	n/a
Date	3 / 5 / 15
Letting Date	
2012 Standard Specifications	
Sheet Description	NBL Hardscape Plan
Sheet #	LH-02





**TRUCK PARKING**

EXISTING TREE (TYP)

DO NOT DISTURB PLANTINGS IN THIS AREA

DO NOT DISTURB PLANTINGS IN THIS AREA

DO NOT DISTURB PLANTINGS IN THIS AREA

GRADE AND SEED/SOW TURF IN AREA

EXISTING SIDEWALK ALIGNMENT (TYP)

PAVED DITCH

NOTES:

- ALL PLANTING AREAS TO RECEIVE 4" OF PINE BARK MULCH.
- ALL BOULDERS SUPPLIED BY NCDOT AND WILL BE DELIVERED TO THE SITE.
- DO NOT DAMAGED EXISTING LANDSCAPE PLANTINGS.
- SEE DETAILS FOR PLACEMENT OF FENCE ATOP RETAINING WALL
- ALL PLANTINGS TO HAVE A DEFINED PLANT BED EDGE PER DETAILS.
- WHERE NEW SOD AREAS CONNECT TO EXISTING TURF, CREATE CLEAN TRANSITION.
- DO NOT ALLOW SOIL, MULCH, OR ANY OTHER MATERIALS TO BE DEPOSITED ON PERMEABLE PAVEMENT. IF THE ENGINEER FINDS PERMEABLE PAYER AREAS DEFILED BY CONTRACTOR CONSTRUCTION WORK, PAYER AND SUB-BASE MUST BE REMOVED, CLEANED AND REPLACED.
- ADD 4" OF TOPSOIL FOR ALL NEW PLANT BEDS; ADD 2" TO SOD & RENOVATED TURF AREAS AND ADD 2" FOR RENOVATED PLANT BEDS.

KEY	BOTANICAL NAME	COMMON NAME
<b>Trees</b>		
AS	Acer palmatum 'Sango Kaku'	Sango Kaku Japanese Maple
CC	Cercis canadensis 'Royal White'	Royal White Redbud
CF	Cornus florida 'Cherokee Chief'	Cherokee Chief Flowering Dogwood
IN	Ilex x 'Nellie R Stevens'	Nellie R Stevens Holly
PK	Prunus serrulata 'Kwanzan'	Kwanzan Cherry
QS	Quercus shumardii	Shumard Oak
<b>Shrubs</b>		
AA	Azalea x 'Roble'	Autumn Carnation (Encore) Azalea
AD	Abelia grandiflora 'Rose Creek'	Rose Creek Abelia
CD	Caryopteris x clandonensis 'Dark Knight'	Dark Knight Bluebeard
CH	Cephalotaxus harringtonia 'Prostrata'	Spreading Japanese Yew
CS	Camellia x 'Winter's Charm'	Winter's Charm Hardy Camellia
DO	Daphne odora 'Aureo-marginata'	Variiegated Winter Daphne
IC	Ilex crenata 'Compacta'	Compact Japanese Holly
JC	Juniperus procumbens 'Nana'	Dwarf Japanese Garden Juniper
JS	Juniperus chinensis 'Spartan'	Spartan Juniper
LC	Loropetalum chinense 'Blush'	Blush Loropetalum
NG	Nandina domestica 'Gulf Stream'	Gulf Stream Nandina
RR	Rosa x 'Radco'	Double Knockout Red Rose
<b>Grasses</b>		
JE	Juncus effusus	Soft Rush
LB	Liriope muscari 'Big Blue'	Big Blue Liriope
LV	Liriope muscari 'Variegata'	Variegated Liriope
MC	Muhlenbergia capillaris	Pink Muhly Grass
OJ	Ophiopogon japonicus	Mondo Grass
PS	Panicum virgatum 'Squaw'	Squaw Switch Grass
<b>Perennials</b>		
DC	Delosperma cooperi	Hardy Ice Plant
EK	Echinacea purpurea 'Kim's Knee High'	Kim's Knee Hign Coneflower
HO	Hemerocallis 'Orange Crush'	Orange Crush Daylily
RG	Rudbeckia fulgida 'Goldsturm'	Goldsturm Black-eyed Susan
SA	Sedum spectabile 'Autumn Joy'	Autumn Joy Sedum
WS	Echinacea purpurea 'White Swan'	White Swan Coneflower

ALL PLANTING AREAS TO RECEIVE  
4" OF PINE BARK MULCH.

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AND WILL BE DELIVERED TO THE SITE.

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PLANTINGS.

SEE DETAILS FOR PLACEMENT  
OF FENCE ATOP RETAINING WALL

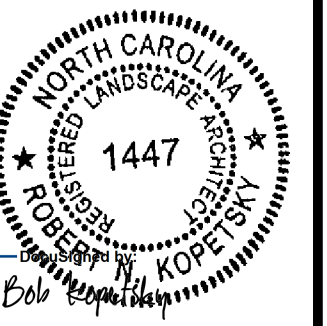
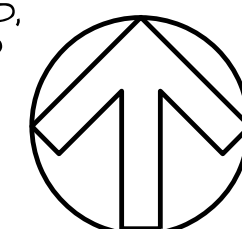
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AA	<i>Azalea x 'Robbie'</i>	Autumn Carnation (Encore)
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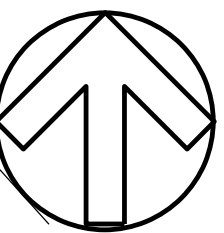
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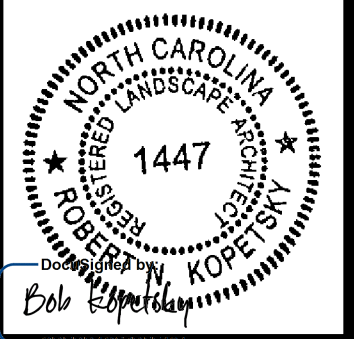
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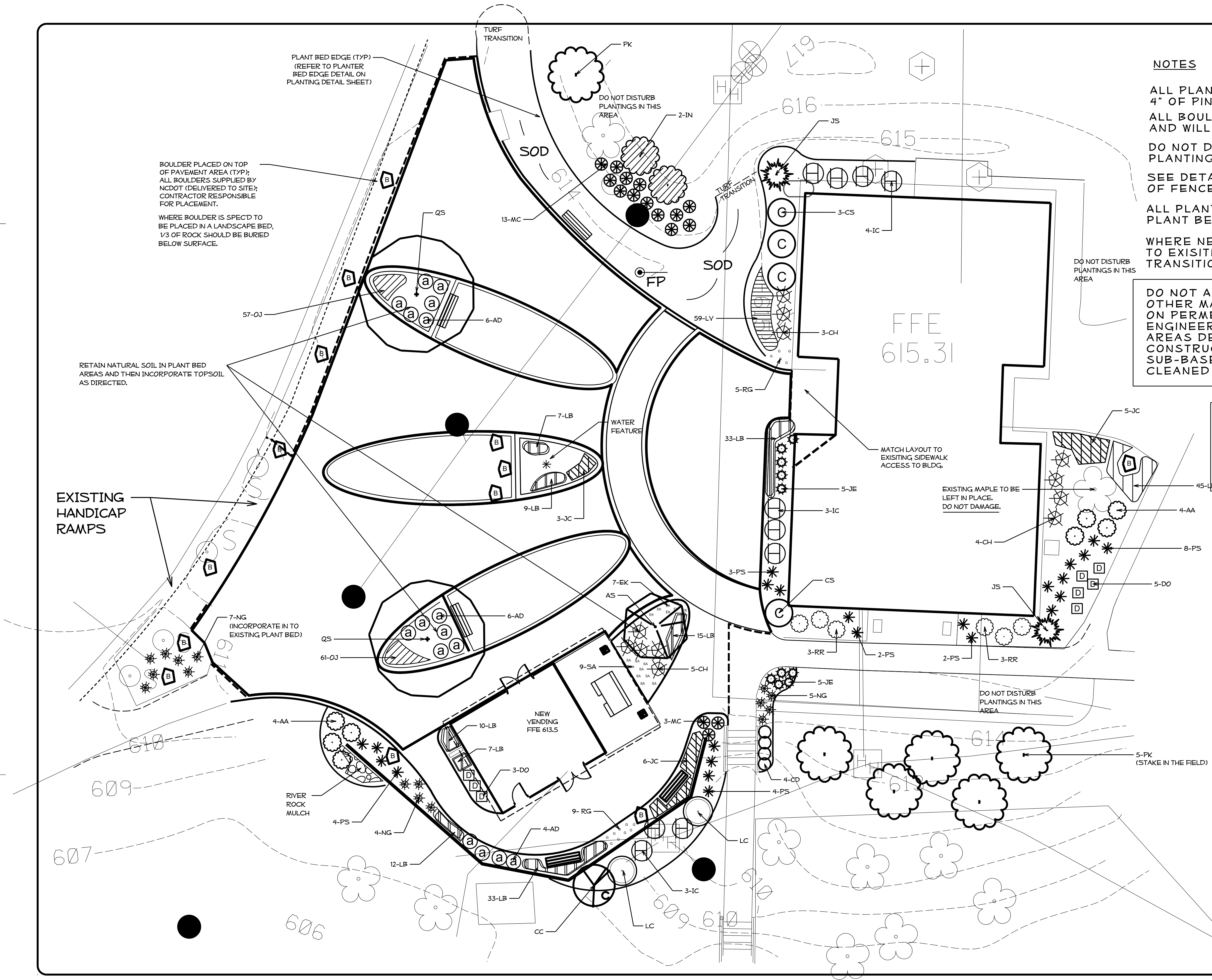


North Carolina Department of Transportation  
Division of Highways  
1 South Wilmington Street Raleigh, North Carolina

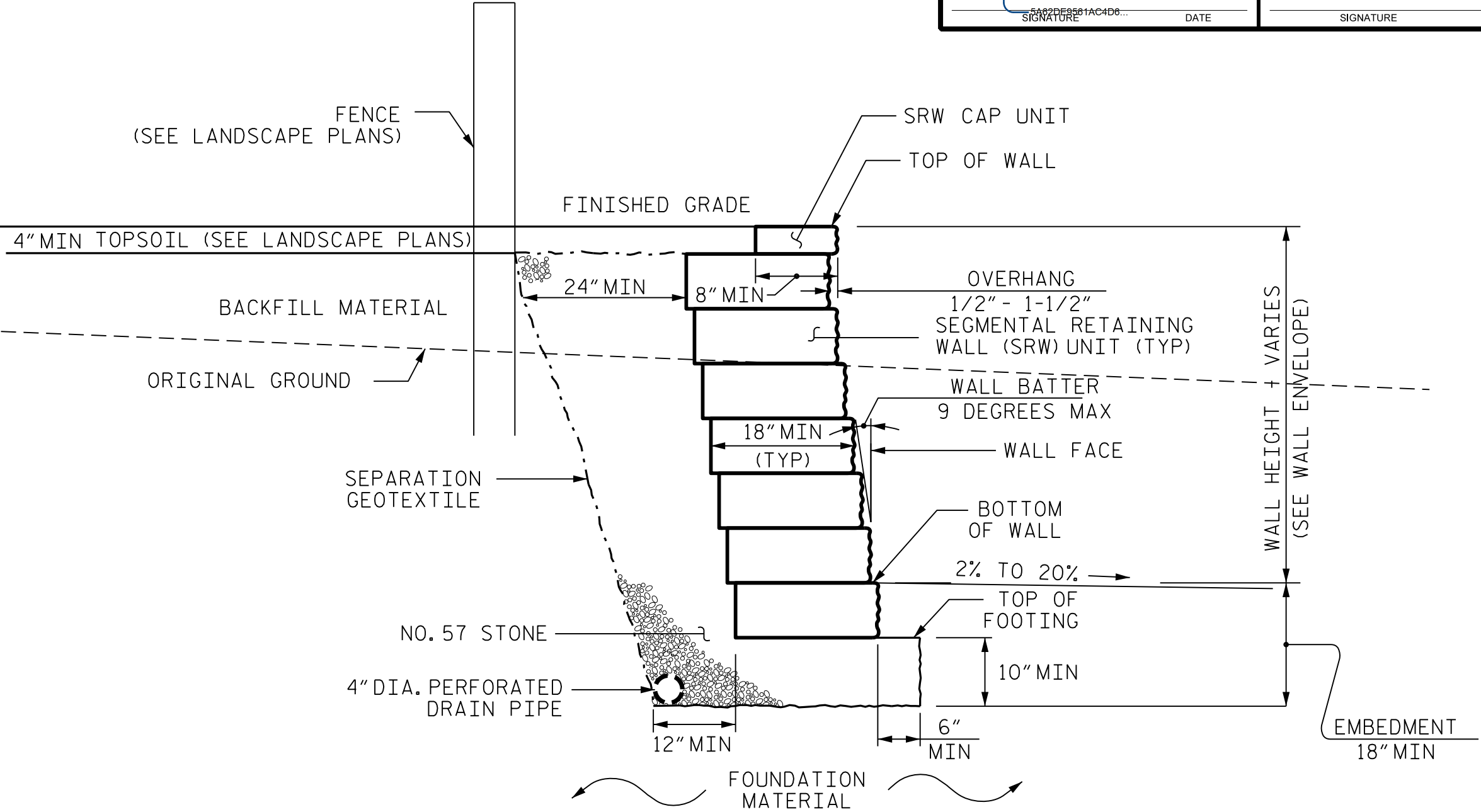
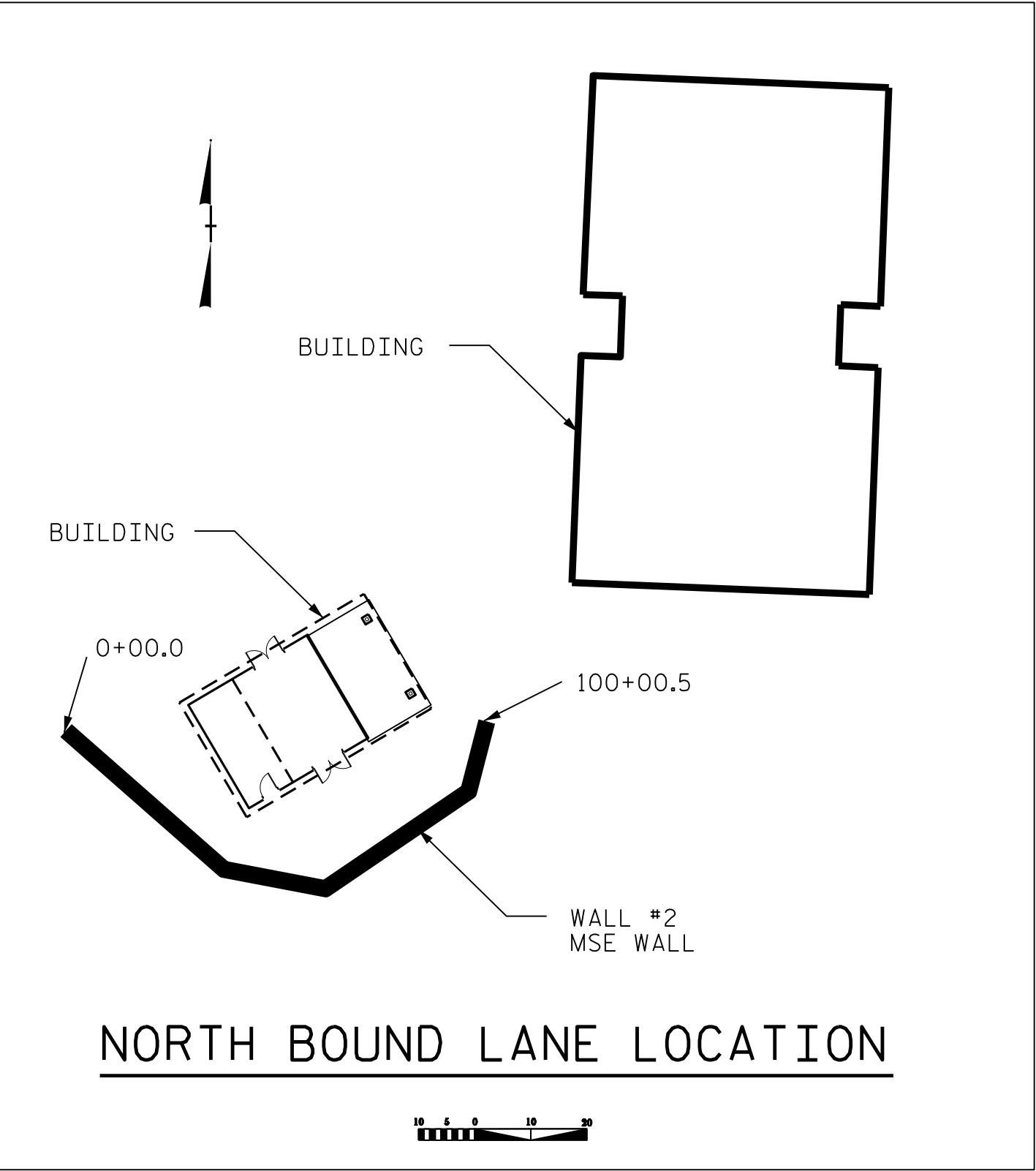
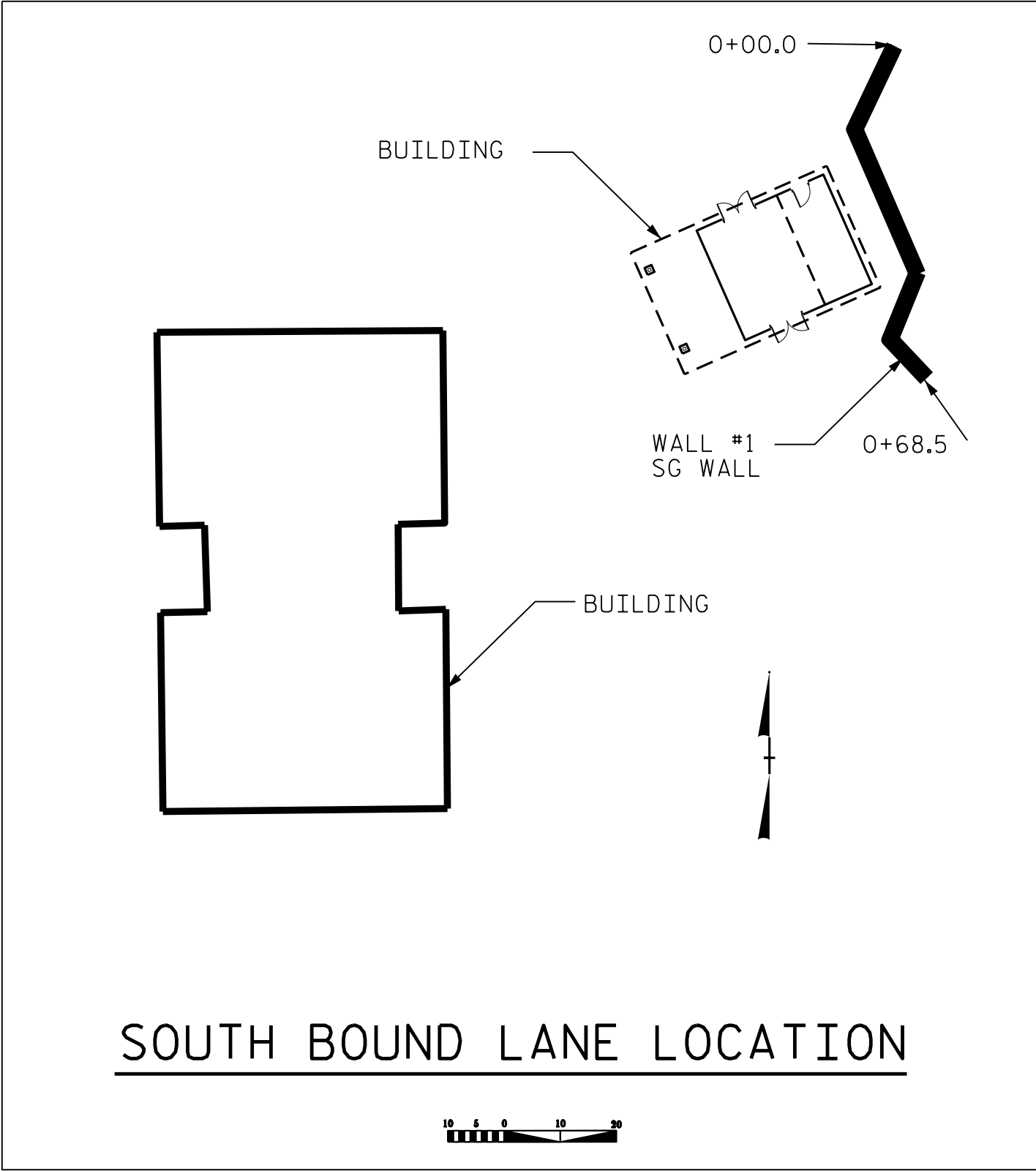


I-40  
Alamance Co. Rest Areas

Plans Drawn By:	KOPESKY
Scale	n/a
Date	3 / 5 / 15
Letting Date	
2012 Standard Specifications	
Sheet Description	NBL Planting Plan
Sheet #	LP-02



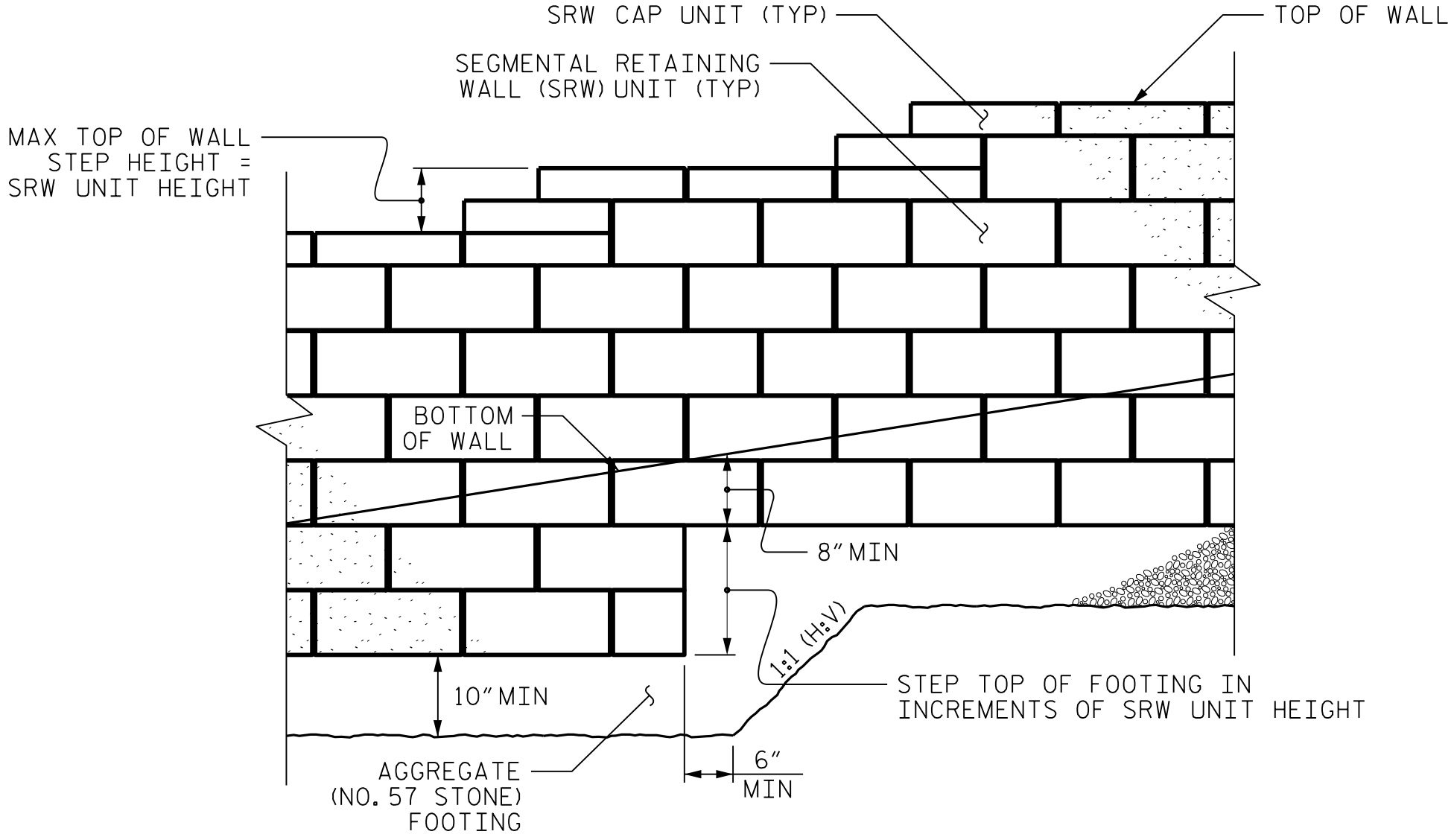




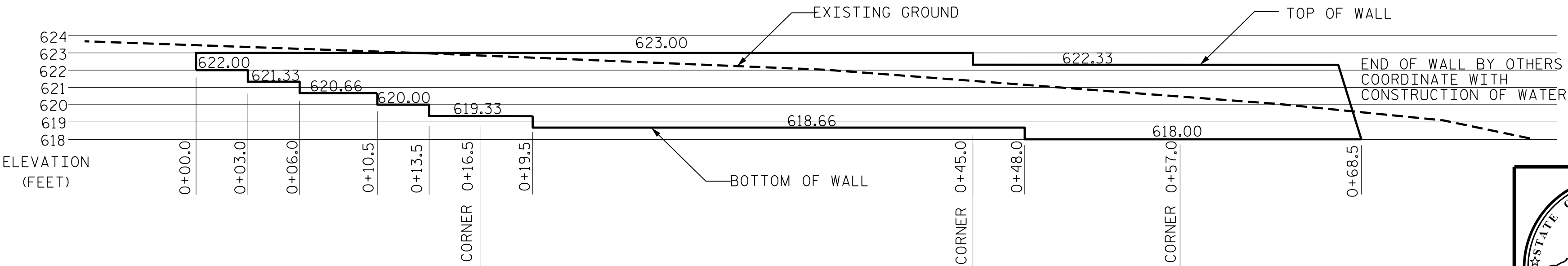
SEGMENTAL GRAVITY WALL (WALL #1)- TYPICAL SECTION

NOTES:

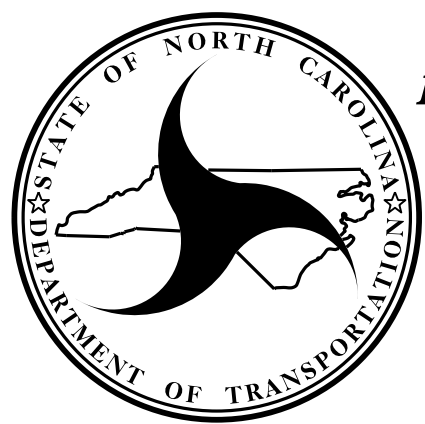
- FOR SEGMENTAL GRAVITY RETAINING WALLS, SEE SEGMENTAL GRAVITY RETAINING WALLS PROVISION.
- DO NOT PLACE NO. 57 STONE FOR FOOTINGS FOR RETAINING WALL NO. 1 UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.
- USE SRW UNITS WITH A EARTH TONE GRAY COLOR FOR RETAINING WALL NO. 1.



SEGMENTAL GRAVITY & MSE WALLS - TYPICAL ELEVATION



ESTIMATED SEGMENTAL GRAVITY WALL QUANTITY	
RETAINING WALL NO.	WALL AREA (SQUARE FEET)
1	300



SEGMENTAL GRAVITY WALL

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		



NOTES:

FOR MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALLS, SEE MECHANICALLY STABILIZED EARTH RETAINING WALLS PROVISION.

USE AN MSE WALL SYSTEM WITH SEGMENTAL RETAINING WALL UNITS (SRW) UNITS THAT MEET ARTICLE 1040-4 OF THE STANDARD SPECIFICATIONS FOR RETAINING WALL NO.2.

AT THE CONTRACTOR'S OPTION, USE FINE AGGREGATE IN THE REINFORCED ZONE OF RETAINING WALL NO.2.

USE SRW UNITS WITH A EARTH TONE GRAY FOR RETAINING WALL NO.2.

A SEPARATION GEOTEXTILE IS REQUIRED AT THE BACK OF THE REINFORCED ZONE FOR RETAINING WALL NO.2.

BEFORE BEGINNING MSE WALL DESIGN FOR RETAINING WALL NO.2, SURVEY WALL LOCATION AND SUBMIT A REVISED WALL PROFILE VIEW (WALL ENVELOPE) FOR REVIEW. DO NOT START WALL DESIGN OR CONSTRUCTION UNTIL THE REVISED WALL ENVELOPE IS ACCEPTED.

- DESIGN RETAINING WALL NO.2 FOR THE FOLLOWING:
- 1) H = DESIGN HEIGHT + EMBEDMENT
  - 2) DESIGN LIFE = 75 YEARS
  - 3) MAXIMUM FACTORED VERTICAL PRESSURE ON FOUNDATION MATERIAL = 1500 LB/SF
  - 4) MINIMUM REINFORCEMENT LENGTH (L) = 6 FT
  - 5) REINFORCED ZONE AGGREGATE PARAMETERS:

AGGREGATE TYPE*	UNIT WEIGHT ( $\gamma$ ) LB/CF	FRICTION ANGLE ( $\phi$ ) DEGREES	COHESION (c) LB/SF
COARSE	110	38	0
FINE	115	34	0
*SEE MSE RETAINING WALLS PROVISION FOR COARSE AND FINE AGGREGATE MATERIAL REQUIREMENTS.			

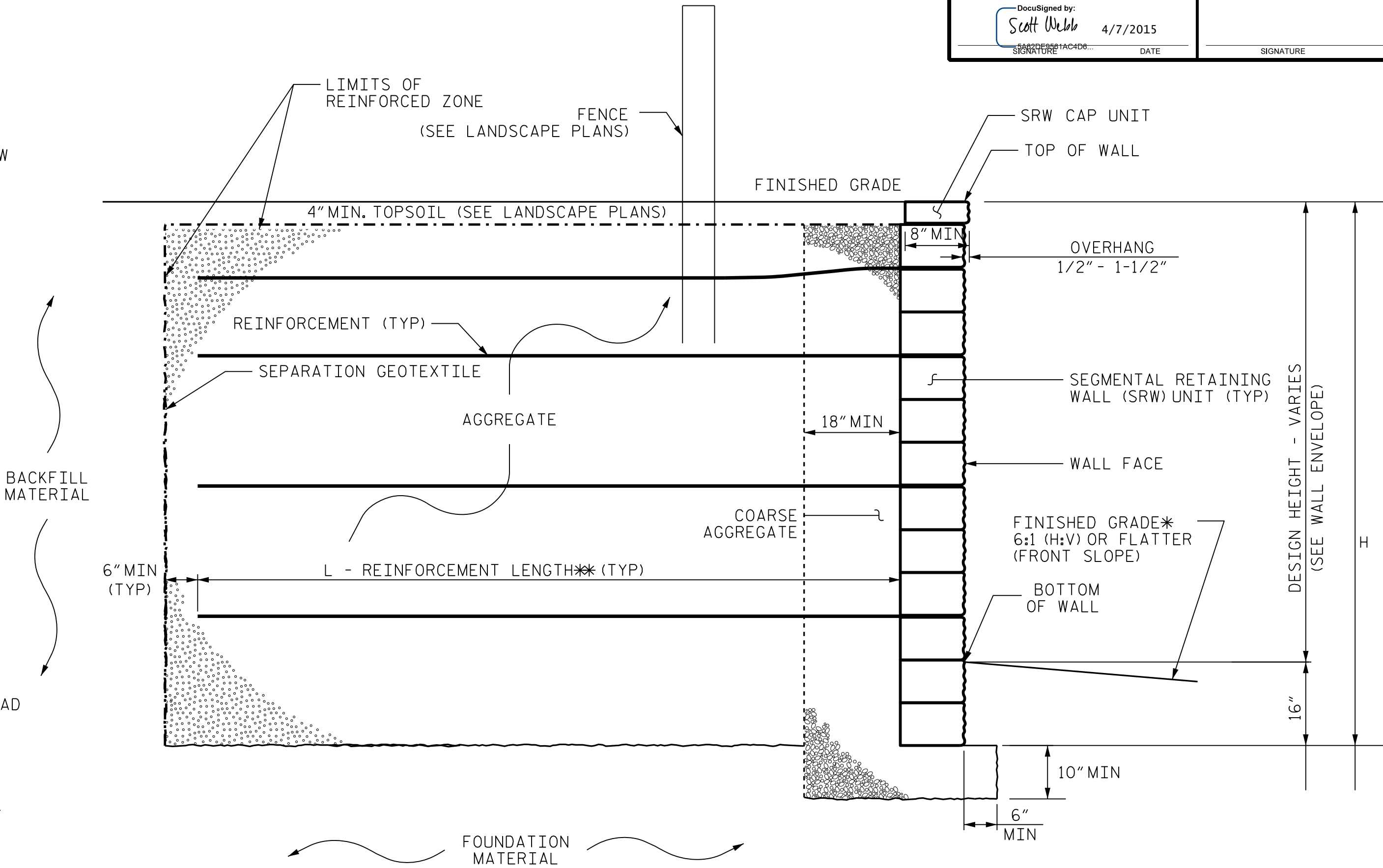
7) IN-SITU ASSUMED MATERIAL PARAMETERS:

MATERIAL TYPE	UNIT WEIGHT ( $\gamma$ ) LB/CF	FRICTION ANGLE ( $\phi$ ) DEGREES	COHESION (c) LB/SF
BACKFILL	120	29	0
FOUNDATION	120	29	0

DESIGN RETAINING WALL NO.2 FOR A 100 PSF LIVE LOAD SURCHARGE STARTING 2 FEET FROM THE WALL FACE AND A 50 PSF DEAD LOAD SURCHARGE STARTING 10 FEET FROM THE WALL FACE.

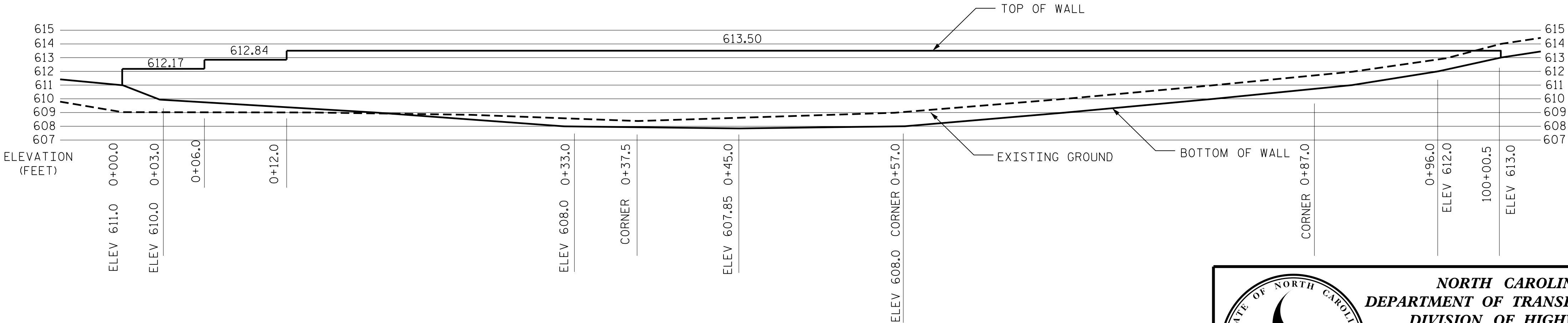
EXISTING OR FUTURE OBSTRUCTIONS SUCH AS FENCE OR HANDRAIL POSTS, PAVEMENTS, PIPES, INLETS OR UTILITIES WILL INTERFERE WITH REINFORCEMENT FOR RETAINING WALL NO.2.

DO NOT PLACE AGGREGATE OR REINFORCEMENT FOR RETAINING WALL NO.2 UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.



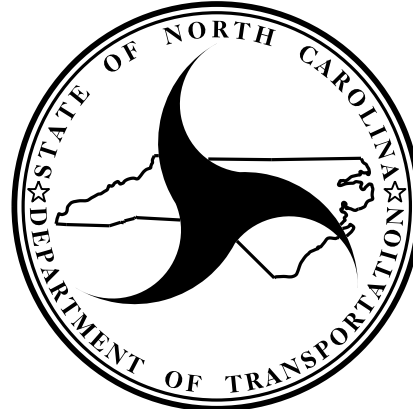
MSE WALL WITH SRW UNITS (WALL #2)- TYPICAL SECTION

\*SEE LANDSCAPE PLANS FOR FINISHED GRADE DETAILS.  
\*SEE MSE RETAINING WALLS PROVISION AND MSE WALL NOTES FOR REINFORCEMENT LENGTH REQUIREMENTS.



ESTIMATED MSE WALL QUANTITY	
RETAINING WALL NO.	WALL AREA (SQUARE FEET)
1	550

PREPARED BY: RSW	DATE: 3/30/2015
REVIEWED BY:	DATE:



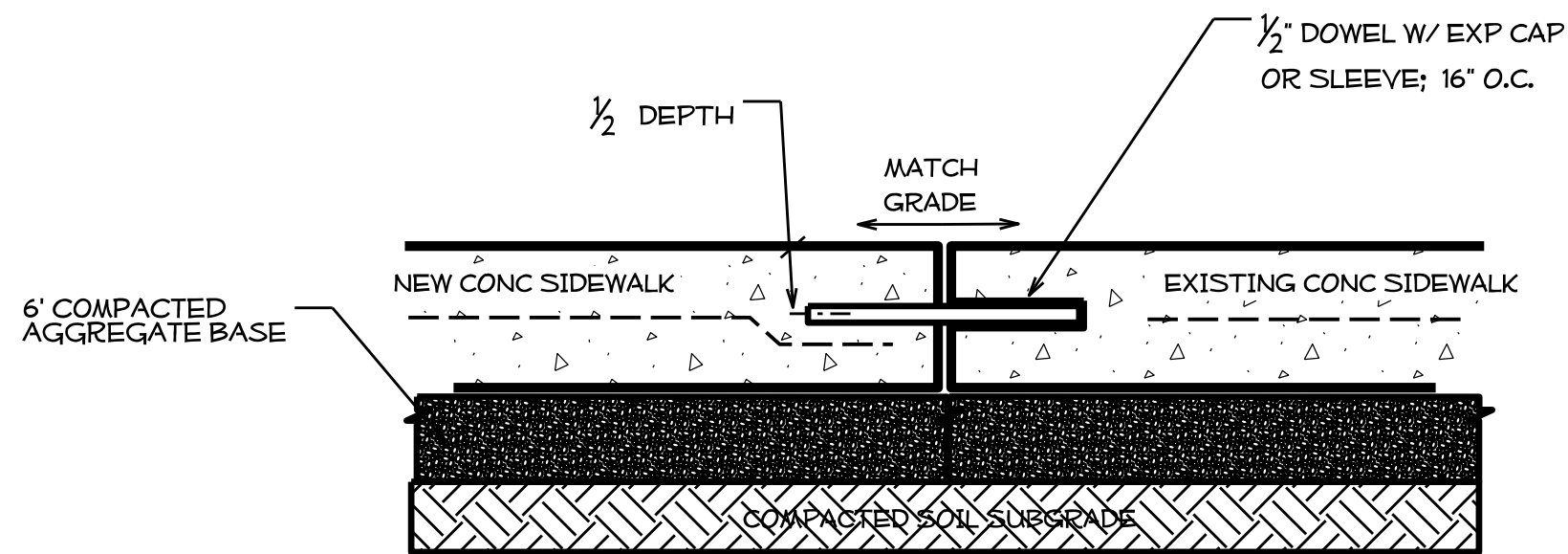
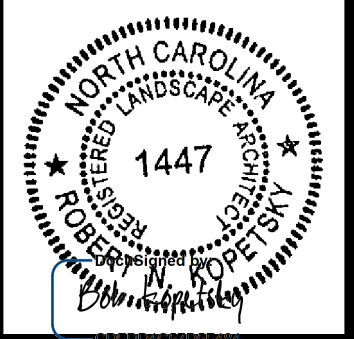
NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

GEOTECHNICAL  
ENGINEERING UNIT

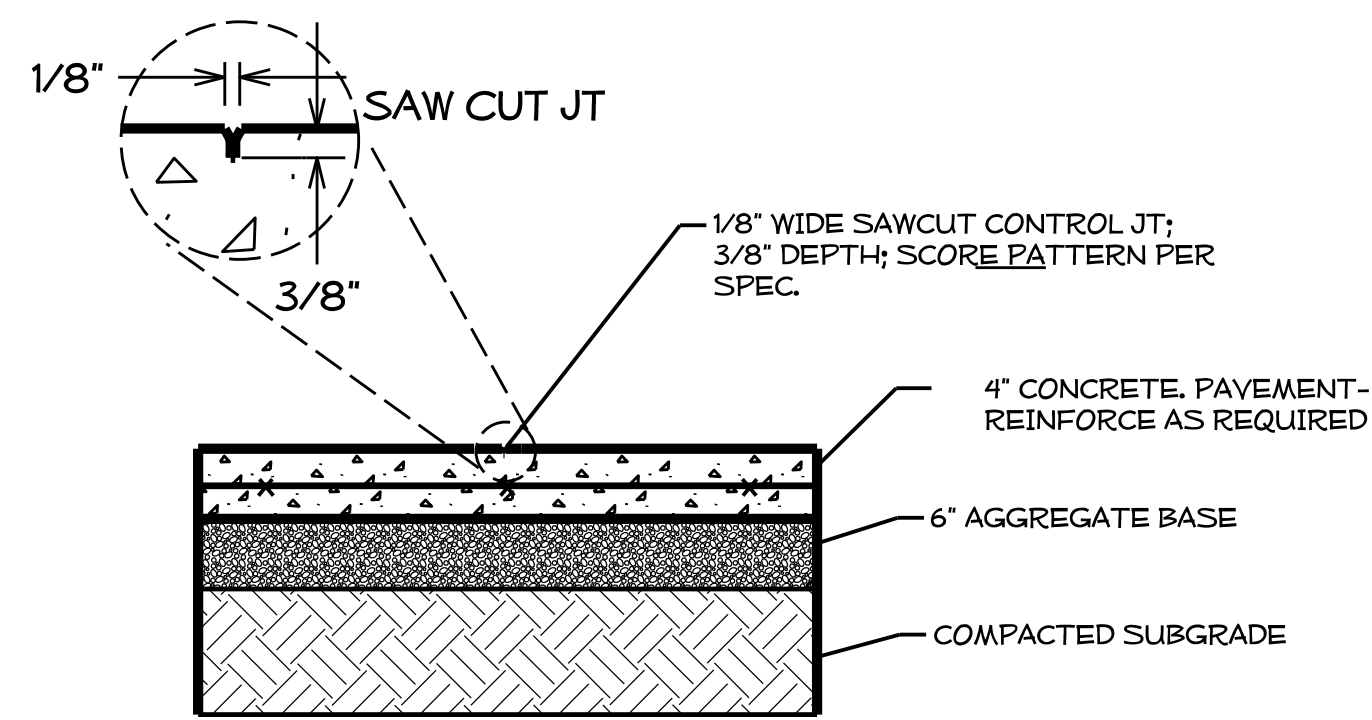
MSE RETAINING WALL

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		





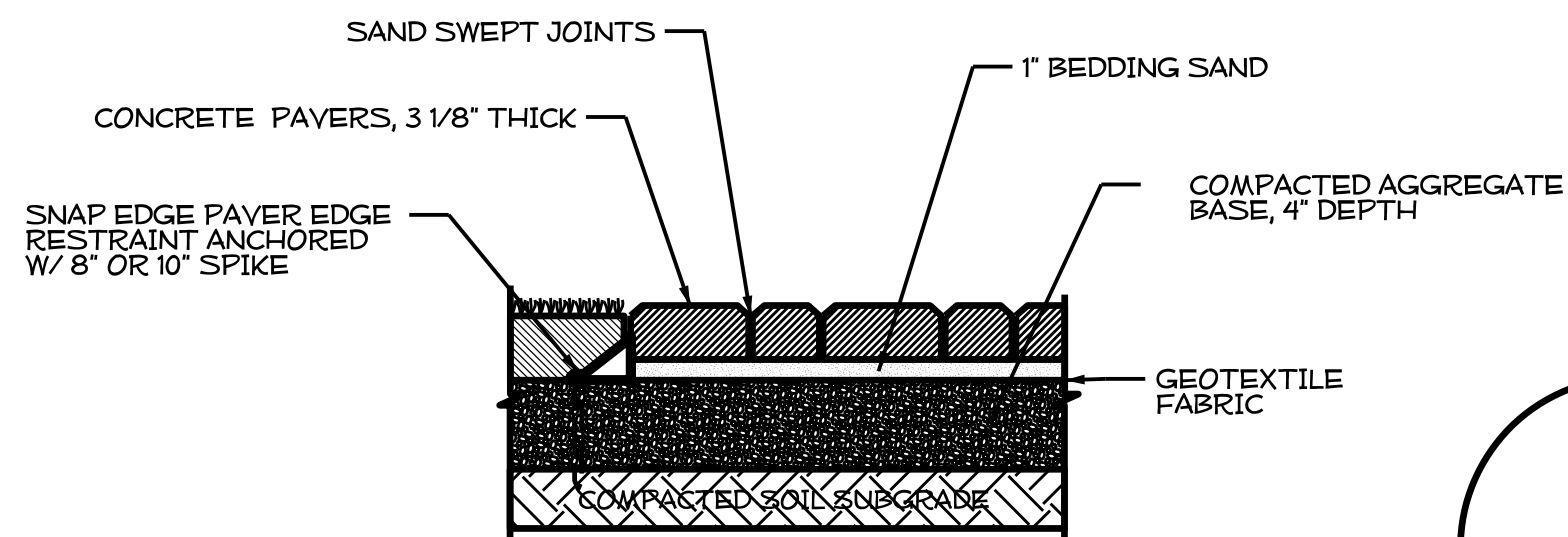
**MATCHING NEW CONC SIDEWALK TO EXISTING**  
FOR ALL LOCATIONS WHERE EXISTING SIDEWALK ADJOINS NEW CONC - CONSULT ENGINEER -



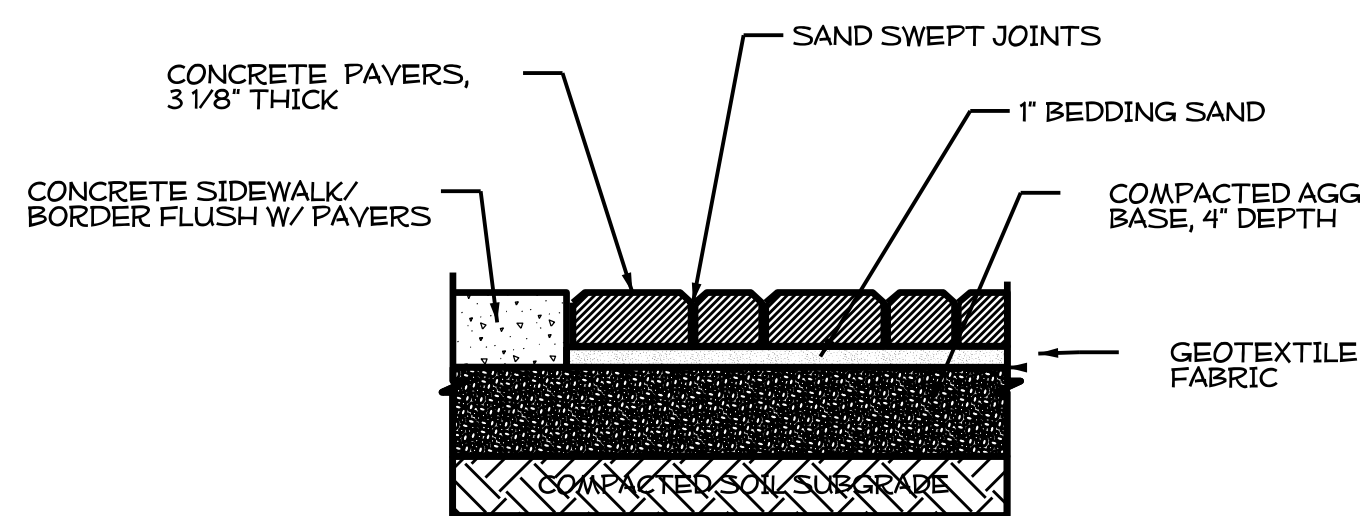
**CONCRETE SIDEWALK - CONTROL JOINT**

**GENERAL NOTES:**

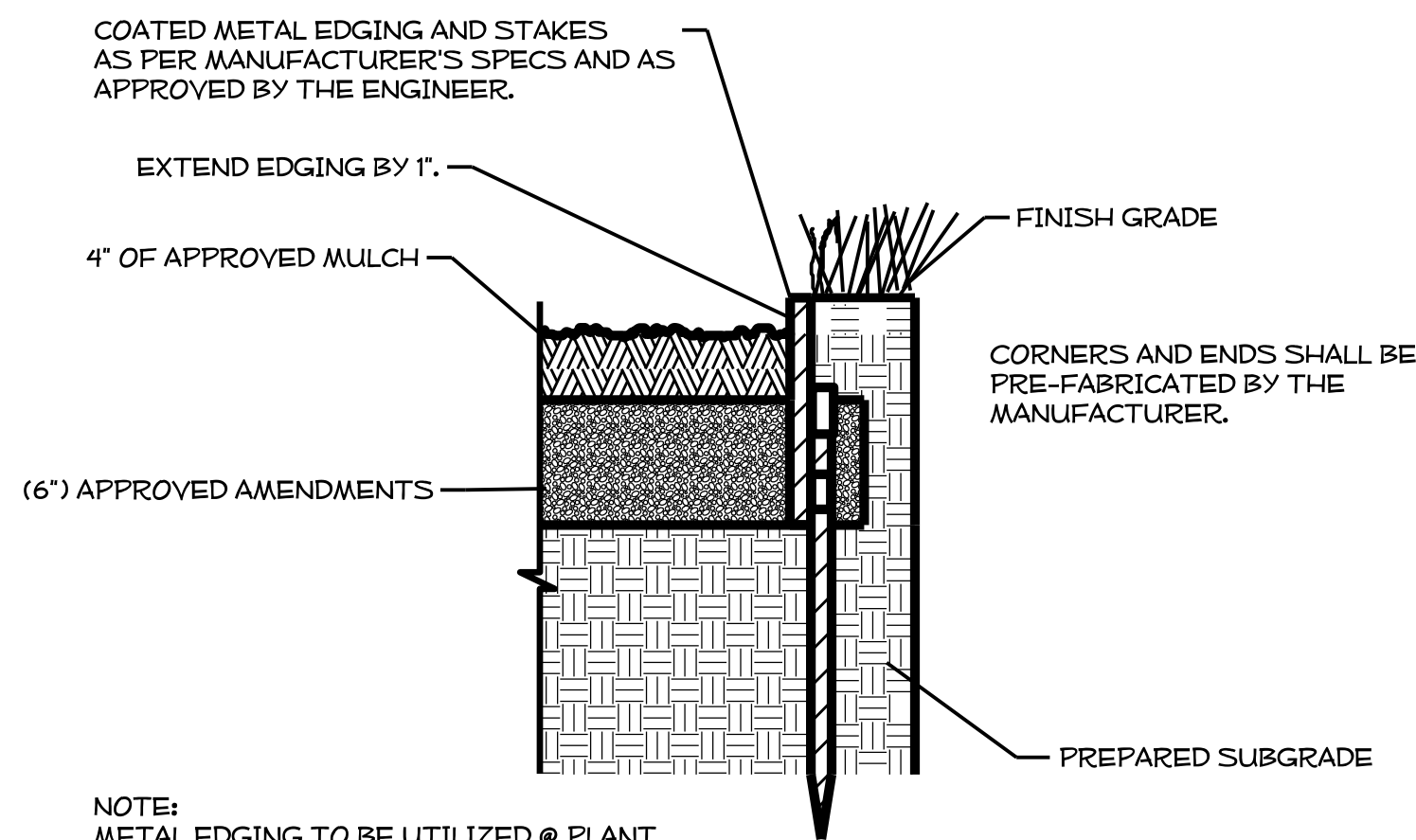
- 1) STANDARD 4" THICK CONCRETE SIDEWALK TO BE INSTALLED AS NOTED ON PLANS; CONTROL JOINT EVERY 5' (OR SAME DIMENSION AS SIDEWALK WIDTH) AND EXPANSION JOINT EVERY 30' (AND WHERE THE SIDEWALK ADJOINS ANOTHER HARD SURFACE).
- 2) CONCRETE PAVER BORDER AS SHOWN ON PLANS:
  - 9" CAST IN PLACE CURB OR
  - METAL RESTRAINT AS SPEC'D.
- 3) PAVER PATTERN, COLOR, AND DIMENSIONS AS DEFINED IN PLANS, DETAILS, OR SPECIFICATIONS.
- 4) ALL HARDSCAPE SURFACES SHALL BE GRADED PROPERLY TO DRAIN TO DESIGNATED LANDSCAPE AREAS OR DROP INLETS.
- 5) WHERE PERMEABLE PAVERS ARE INSTALLED, COMPLETE CONTROL OF CONSTRUCTION PRACTICES ARE VITAL NO DEBRI, SOIL, OR UNSPECIFIED MATERIAL SHALL COME IN TO CONTACT (OR BE LAYED UPON) THE COMPLETED SURFACE OR COMPROMISE INSTALLED DRAINAGE LAYERS.



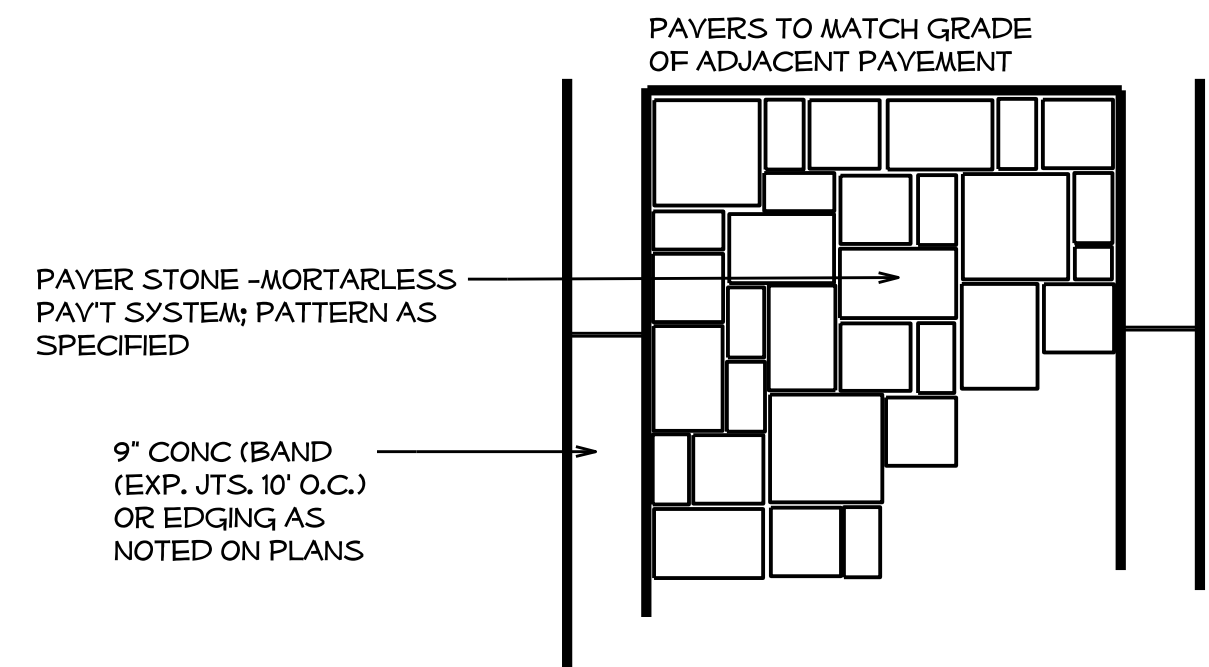
**CONC PAVER DETAIL A**



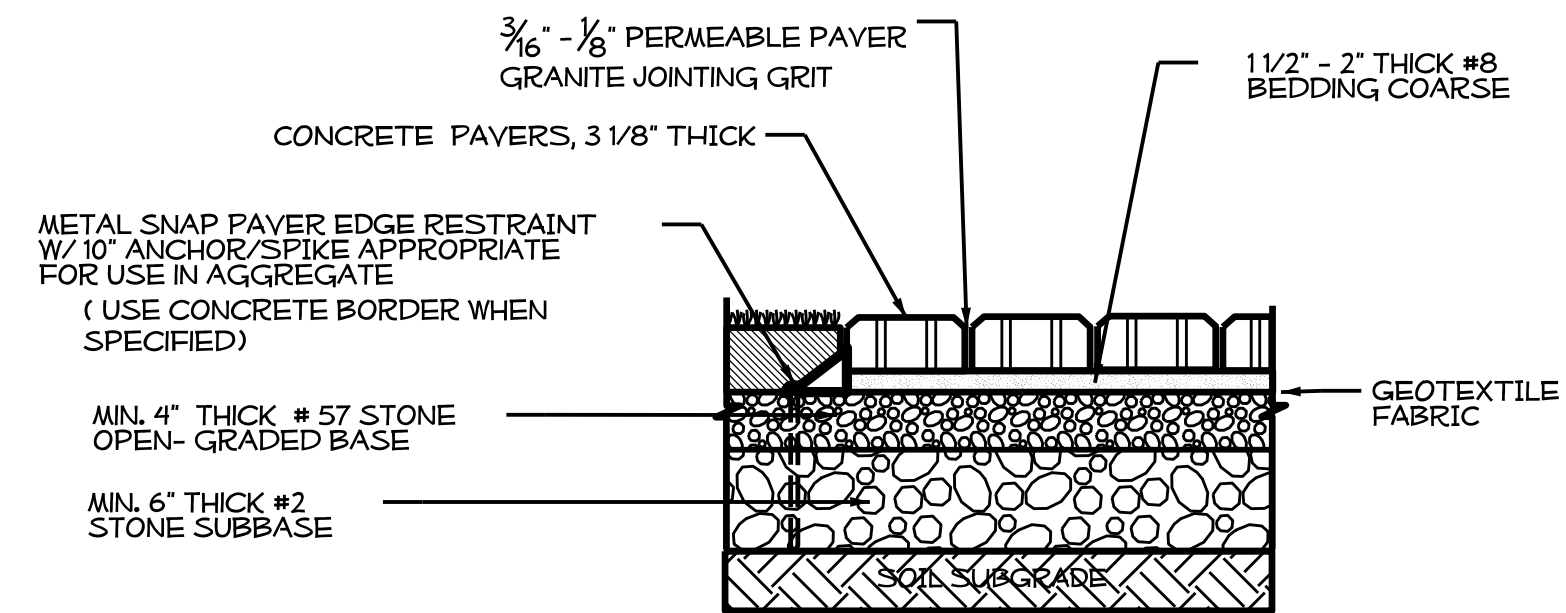
**CONC PAVER DETAIL B**



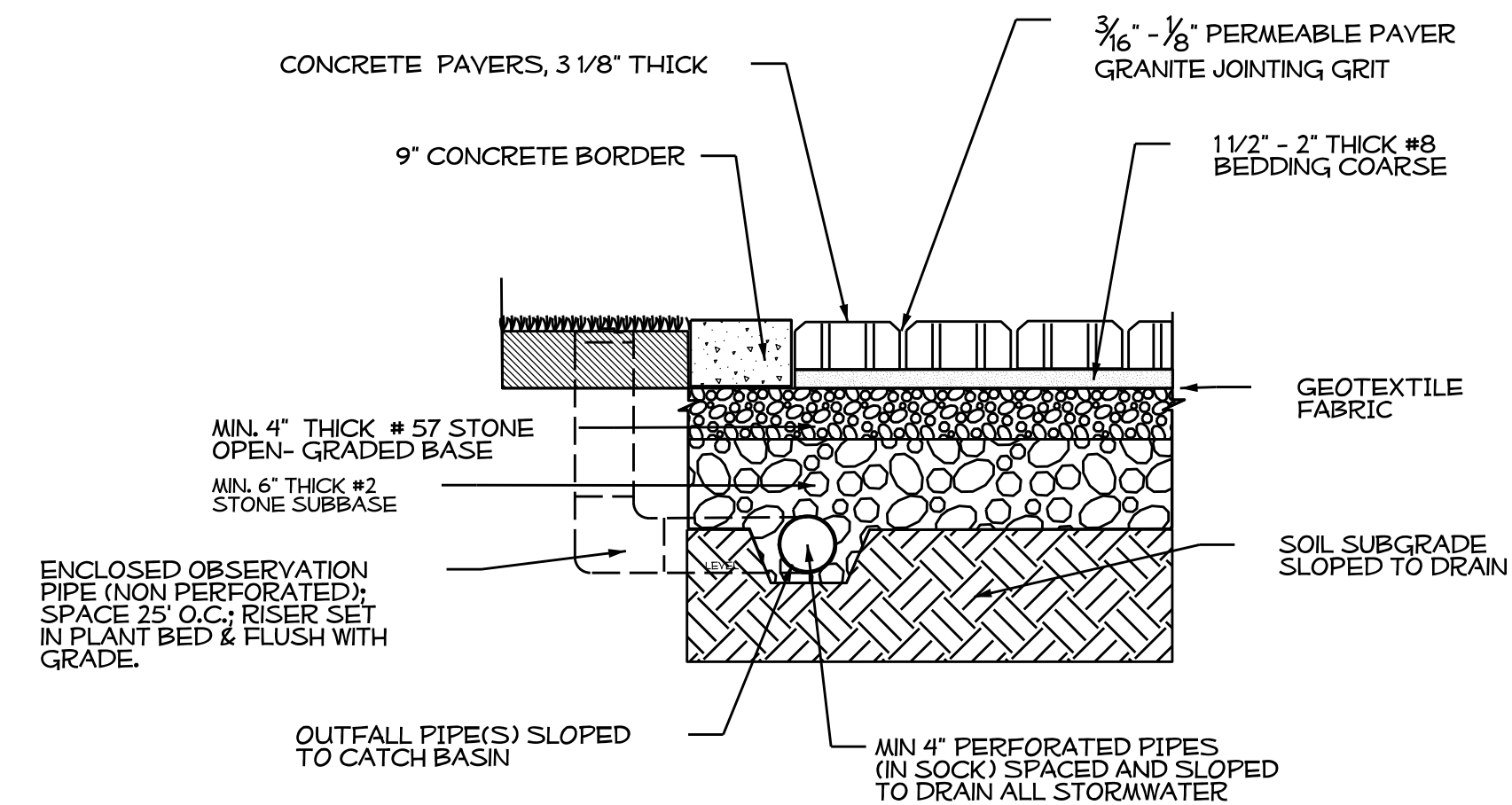
**METAL EDGING**



**TYPICAL PAVER PATTERN**



**PERMEABLE CONC PAVER DETAIL A**

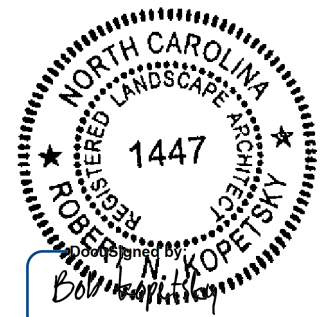


**PERMEABLE CONC PAVER DETAIL B**



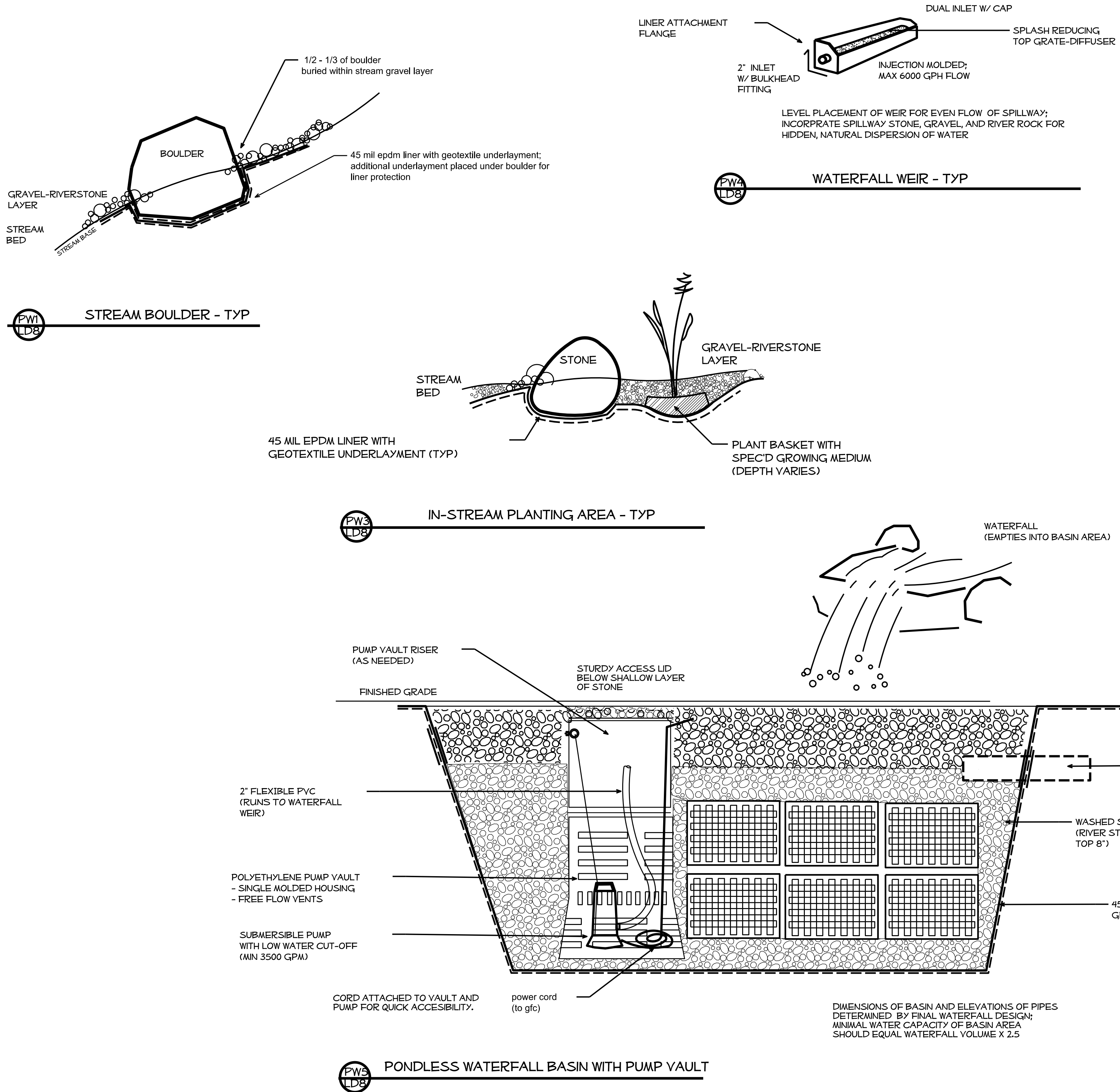
STATE	NC	T.J.P. #	SHEET #
WBS #		F.A. Project #	Description
			P.E.
			RW
3707.3.23			CONST.

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I-40  
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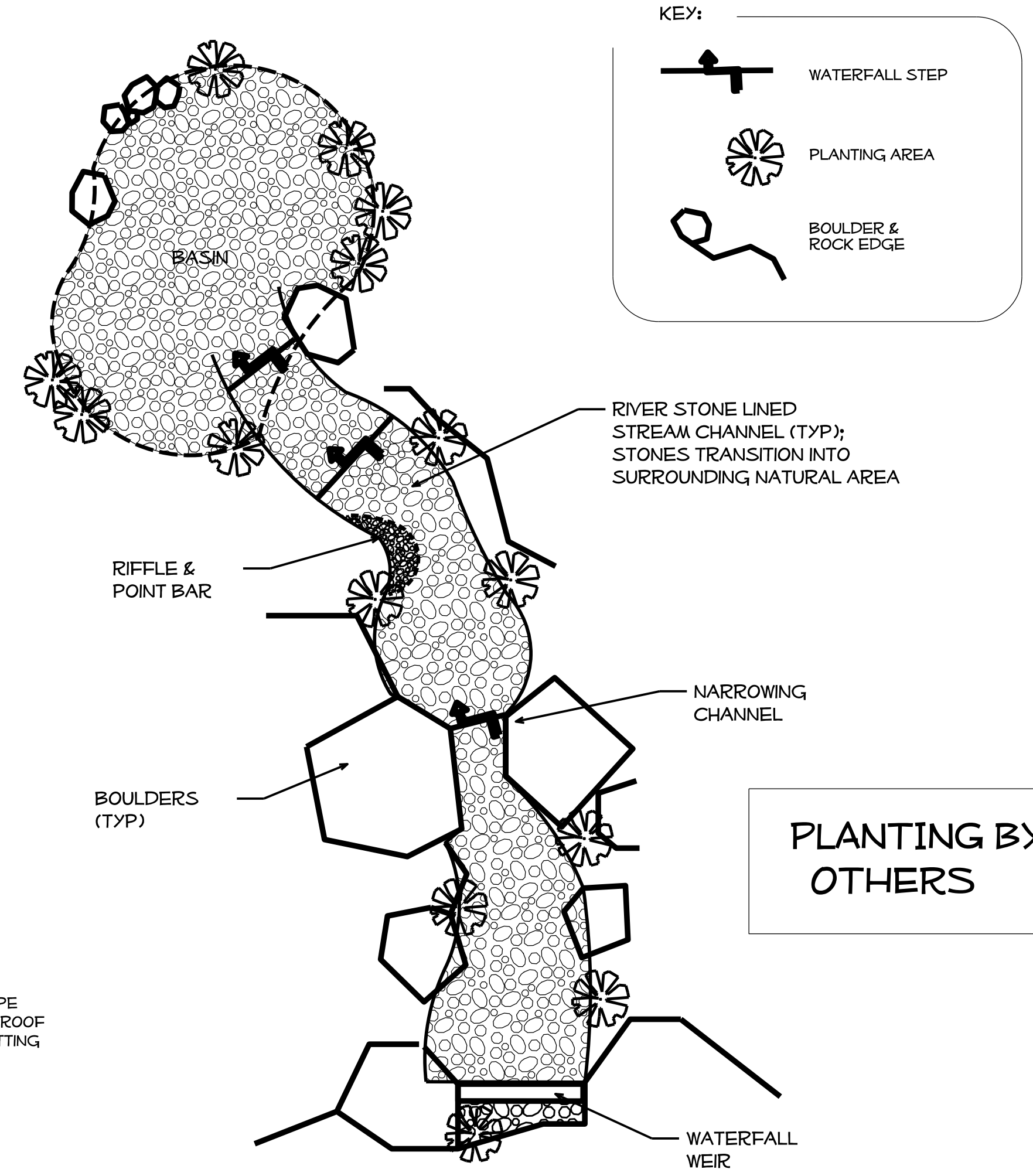
Plans Drawn By:	KOPETSKY
Scale	n/a
Date	3 / 5 / 15
Letting Date	
2012 Standard Specifications	
Sheet Description	SBL Waterfeature Detail
Sheet #	LD-02



NOTES:

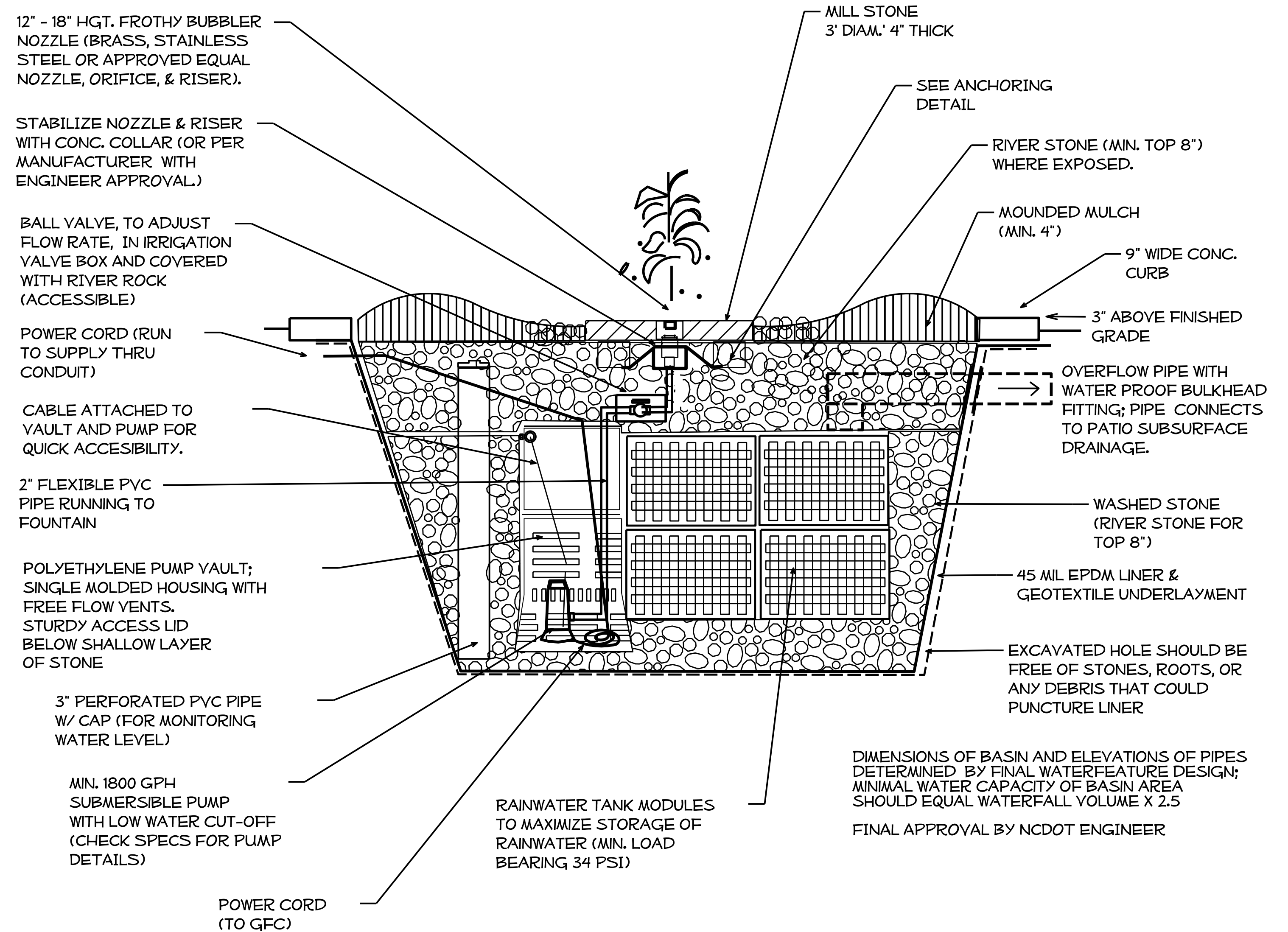
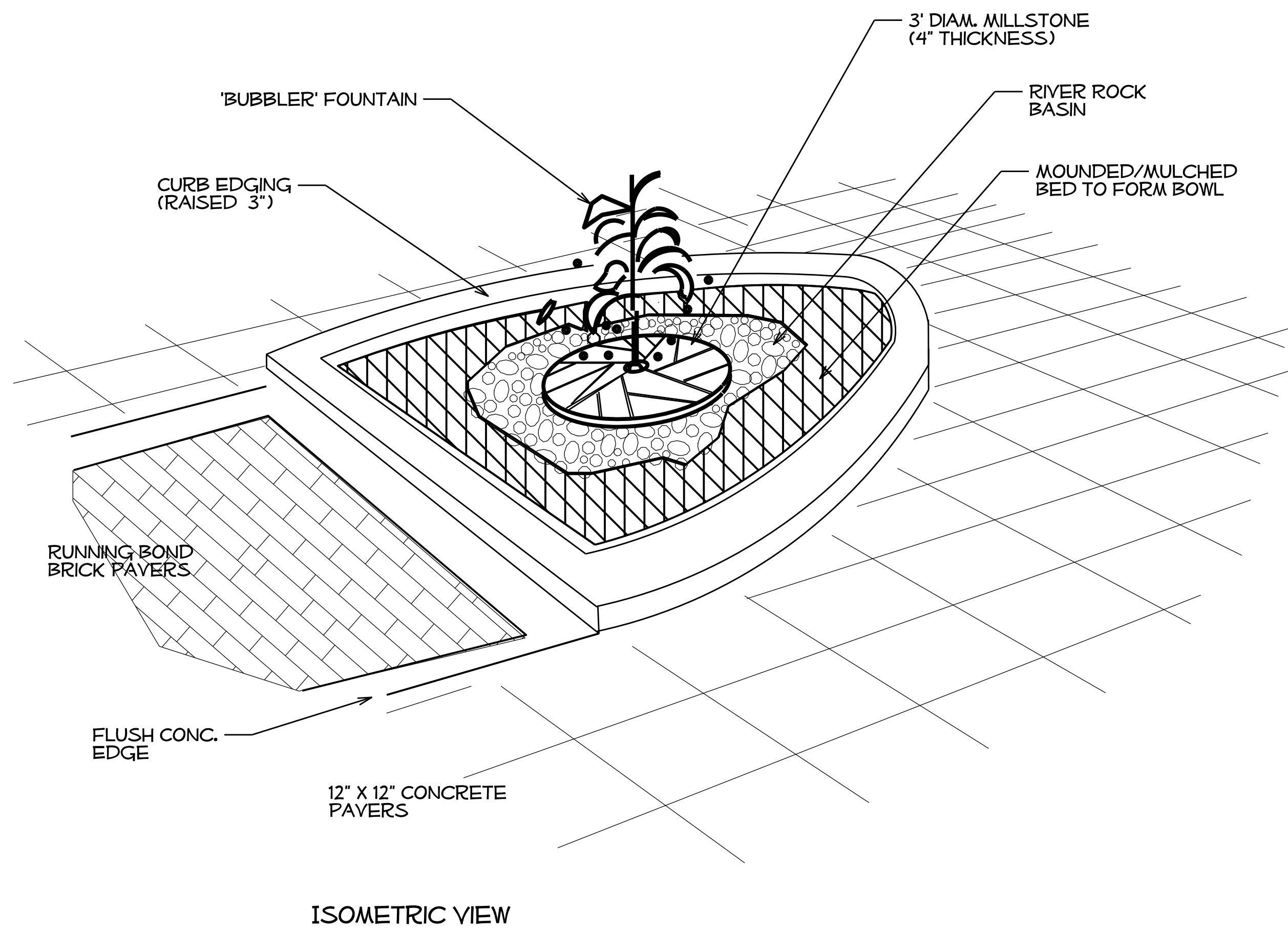
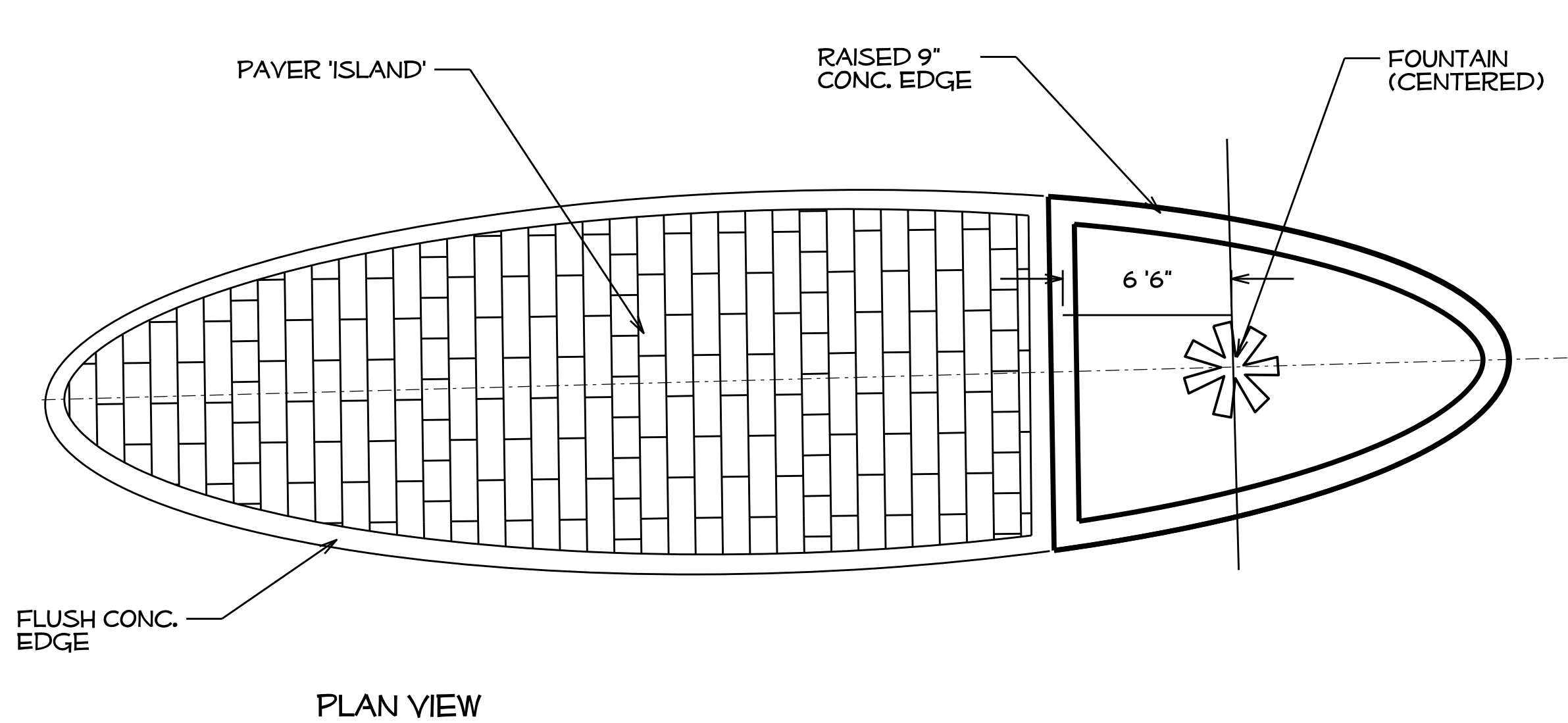
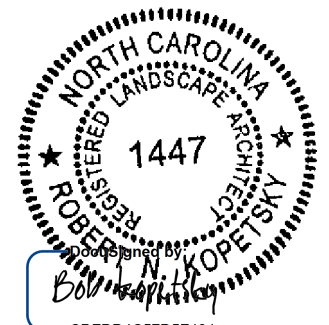
RIFFLE- SHALLOW SEDIMENT GRAVEL BED EXTENDING IN TO STREAM.  
POINTBAR- CRESCENT SHAPED DEPOSIT OF COARSE MATERIAL ON THE INSIDE BEND OF A STREAM.  
POOL- DEEP FLAT AREA OF STREAM ON LOWER SIDE OF A WATERFALL/STEP; BOTTOM OF POOL AREA LINED WITH FINE GRANULAR ROCK.  
CASCADE- SERIES OF STEPS /WATERFALLS.  
WATERFALL- STEP OR VERTICAL DROP IN THE STREAM.

IN CONSTRUCTION OF WATERFALL STREAM, LOCATE 3-4 BOULDERS (ACCESSIBLE TO ADJACENT PATHWAY) FOR SITTING AND VIEWING STREAM.  
CONFIRM LOCATIONS WITH LANDSCAPE ARCHITECT PRIOR TO PLACEMENT.

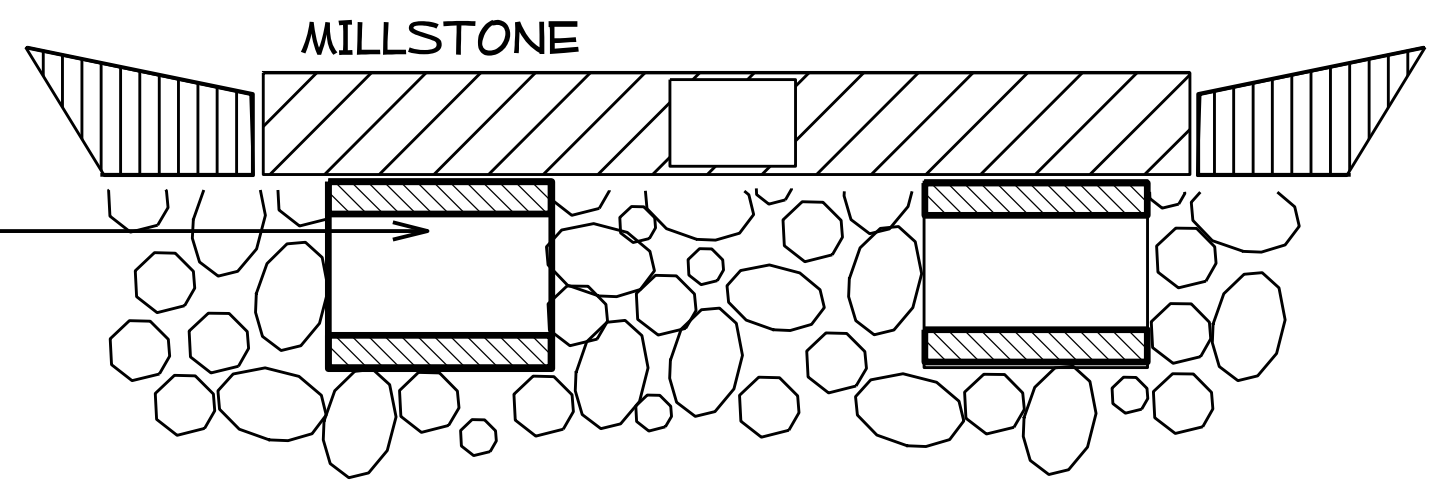


ALL BOULDERS SUPPLIED BY NCDOT; DELIVERED TO SITE AND CONTRACTOR IS RESPONSIBLE FOR THEIR PLACEMENT.





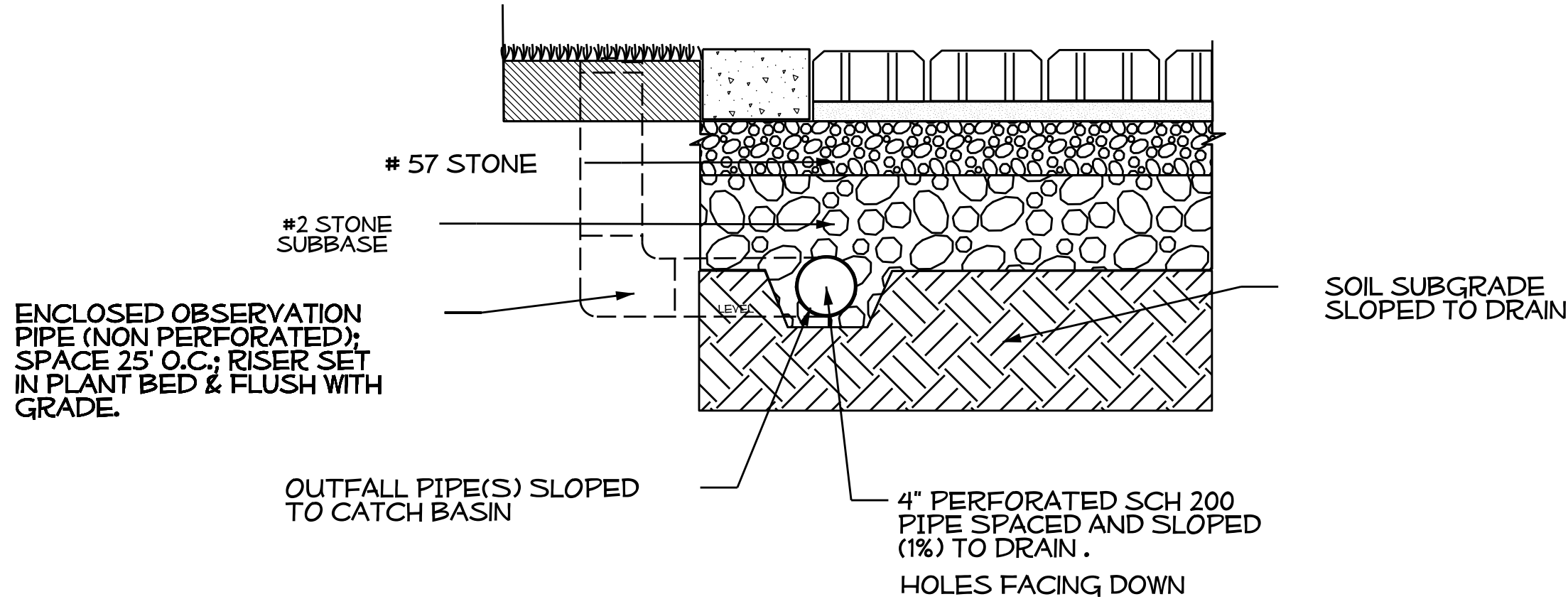
MILLSTONE IS SET ON TOP OF (2) 8" X 16" CMU AND COMPACTED AGGREGATE (TO OFFER STABILITY AND ANCHORING); FILL CORES OF BLOCK WITH AGGREGATE. LEVEL MILLSTONE AND APPLY A HEAVY BEAD OF APPROVED EXTERIOR GRADE CONSTRUCTION ADHESIVE BETWEEN BLOCK AND MILLSTONE.



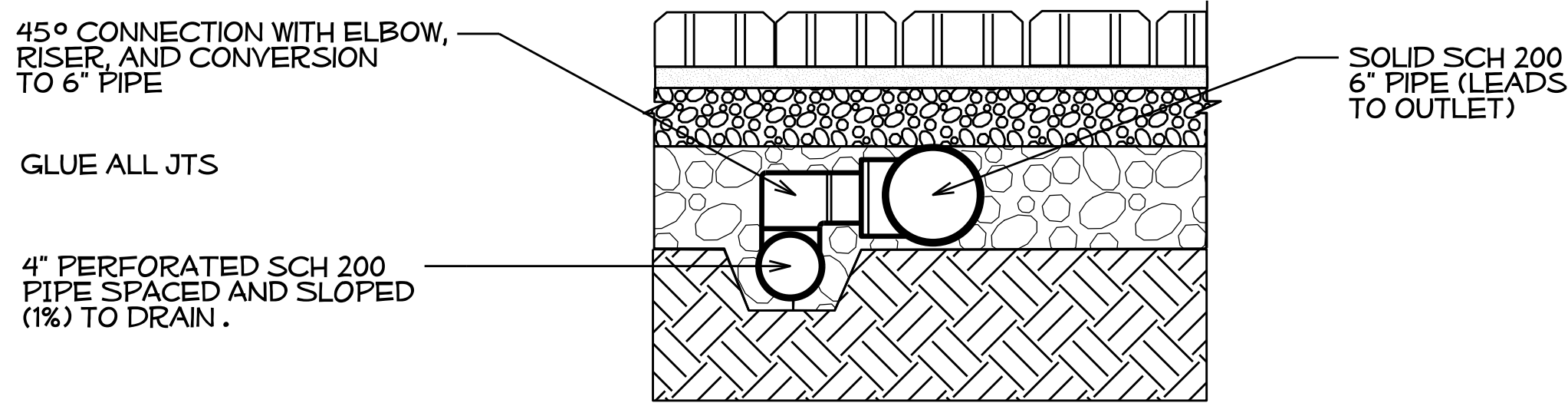
BUBBLER FOUNTAIN, BASIN WITH PUMP VAULT



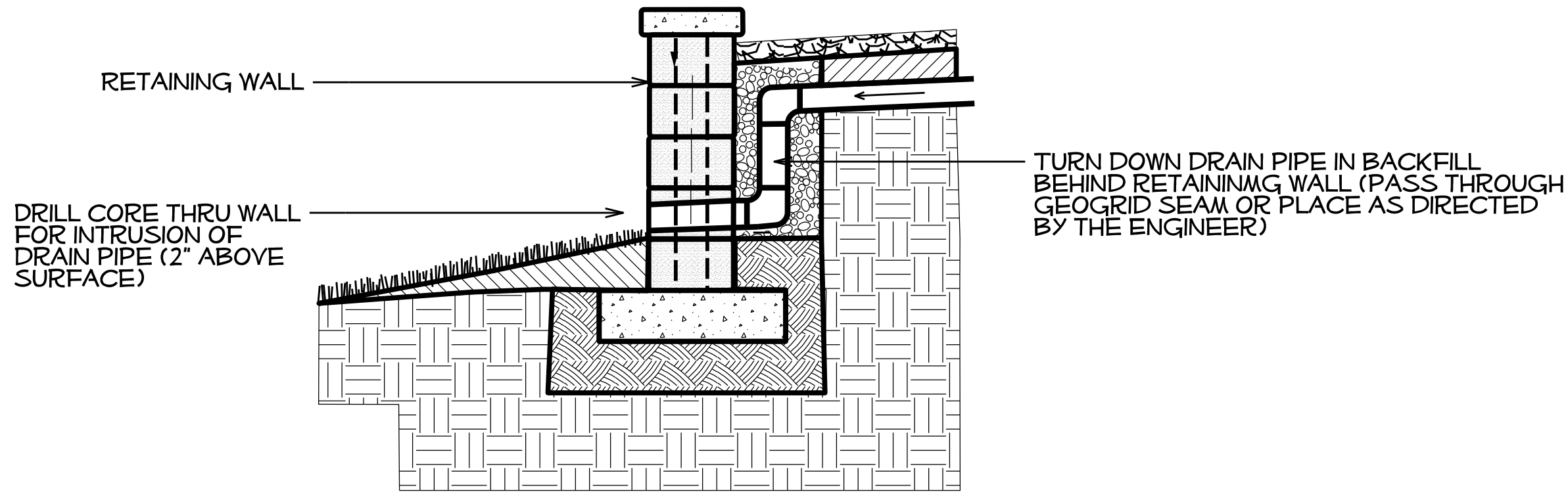
STATE NC	T.I.P. #	SHEET #
WBS #	F.A. Project #	Description
		P.E.
		RW
3707.3.23		CONST.



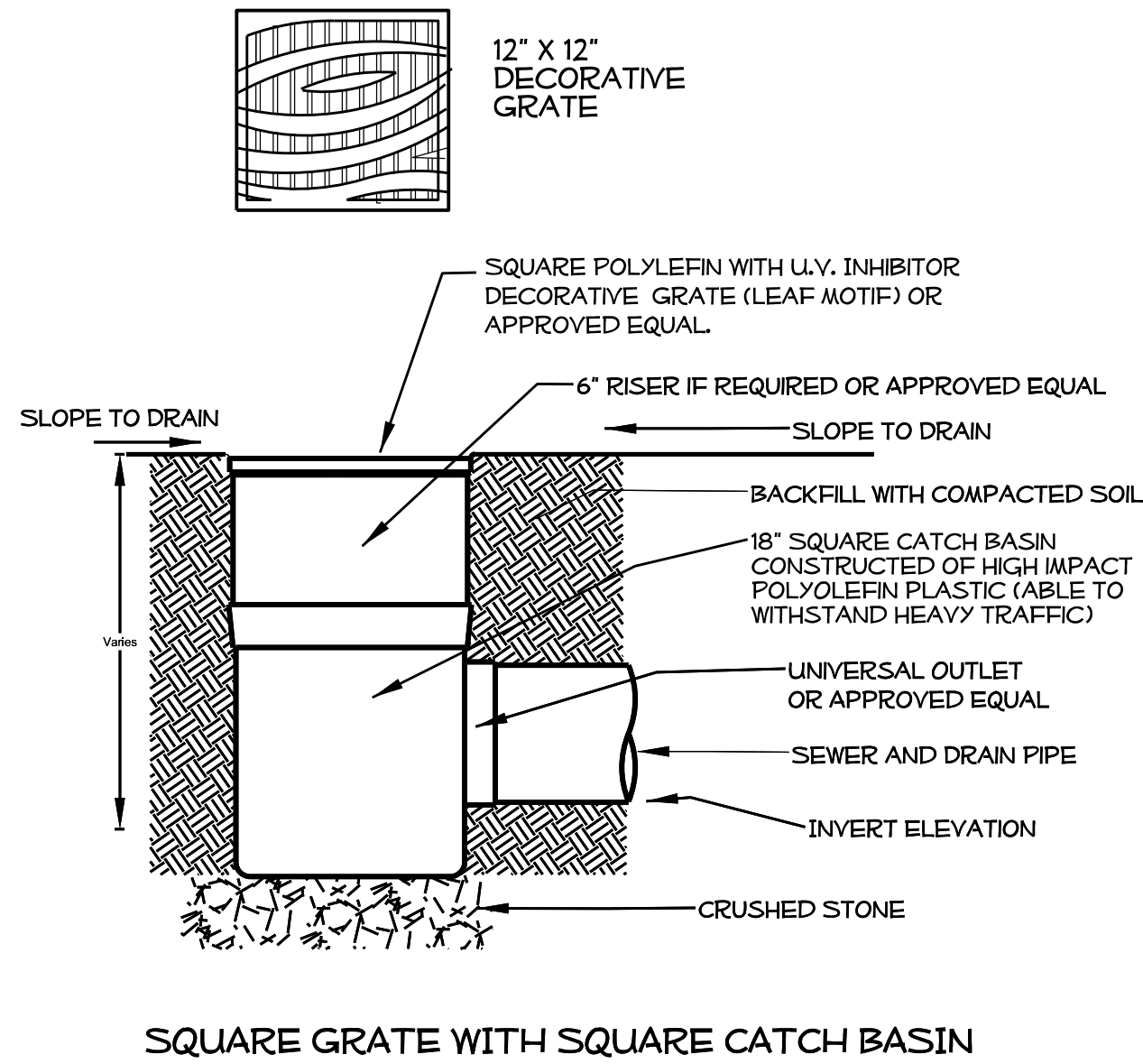
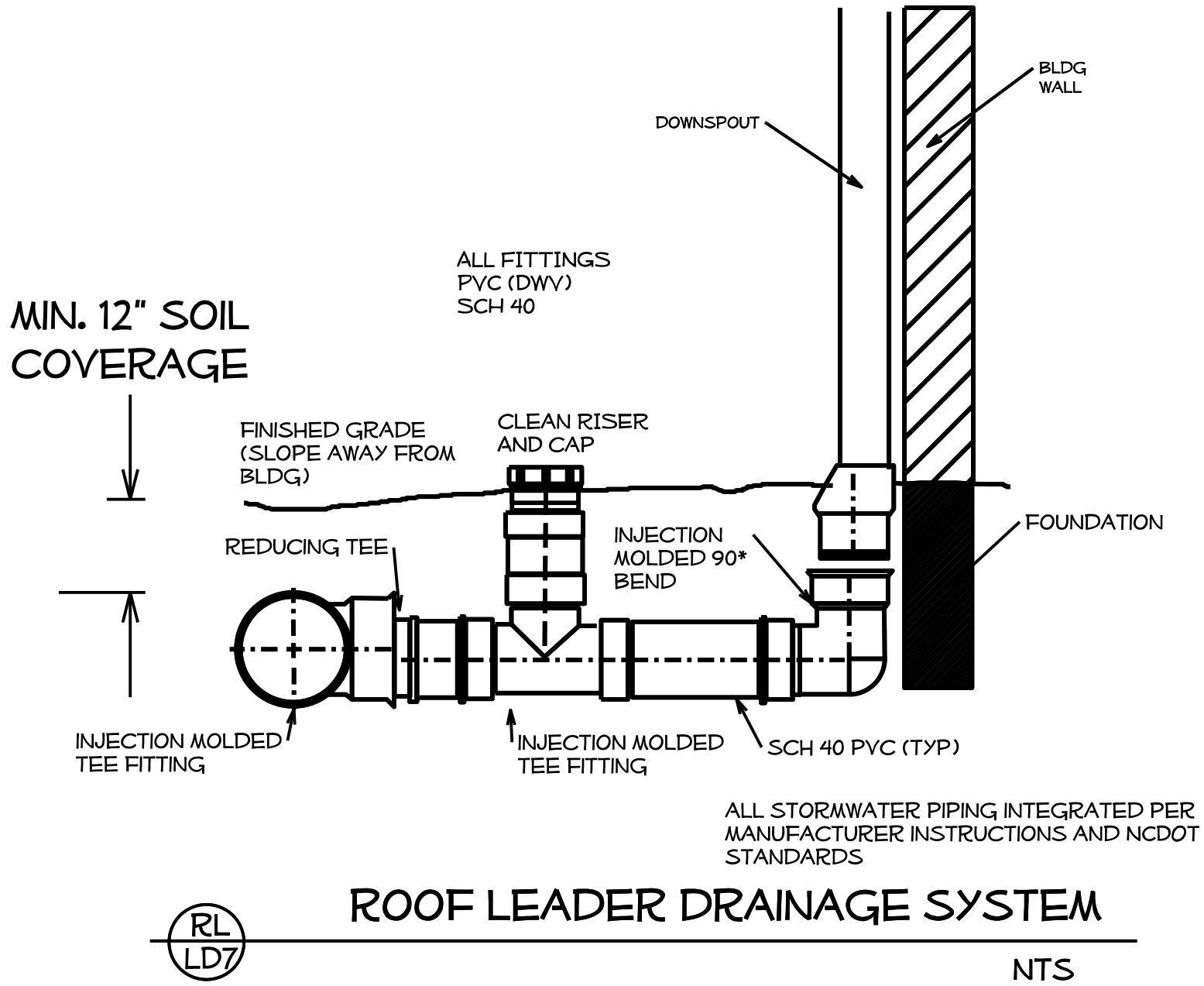
TYPICAL PERMEABLE PAYER DETAIL (SEE PAVEMENT DETAIL SHEET)



PERMEABLE PAVEMENT DRAINAGE CONNECTION TO 6' PIPE



SD LD7 SUBSURFACE DRAINAGE NTS



CB LD7 CATCH BASIN NTS

North Carolina Department of Transportation

Division of Highways

1 South Wilmington Street Raleigh, North Carolina



Plan :

Plans Drawn By:

Scale

Date

Letting Date

Alamance Co. Rest Areas

2012 Standard Specifications

Sheet Description

Drainage Details

Sheet #

KOPETSKY

n/a

3 / 5 / 15

2012 Standard Specifications

Drainage Details

LD-04

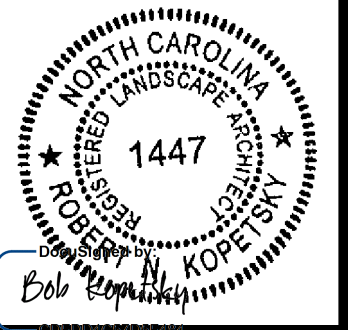


STATE NC	T.J.P. #	SHEET #
WBS #	F.A. Project #	Description
		P.E.
		RW
3707.3.23		CONST.

North Carolina Department of Transportation

Division of Highways

1 South Wilmington Street Raleigh, North Carolina



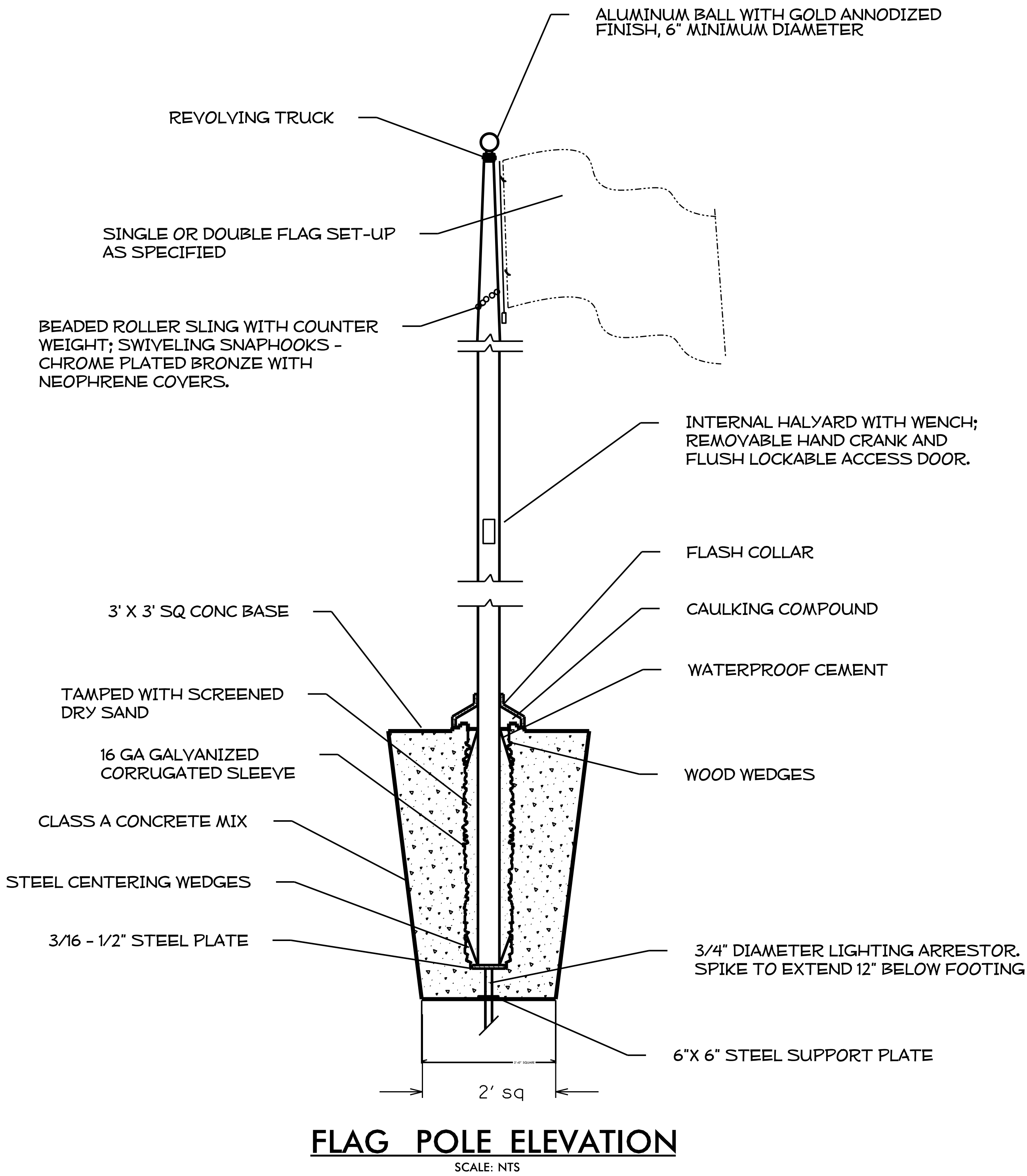
Plan :

I-40

Alamance Co. Rest Areas

Plans Drawn By:
KOPETSKY
Scale
n/a
Date
3 / 5 / 15
Letting Date

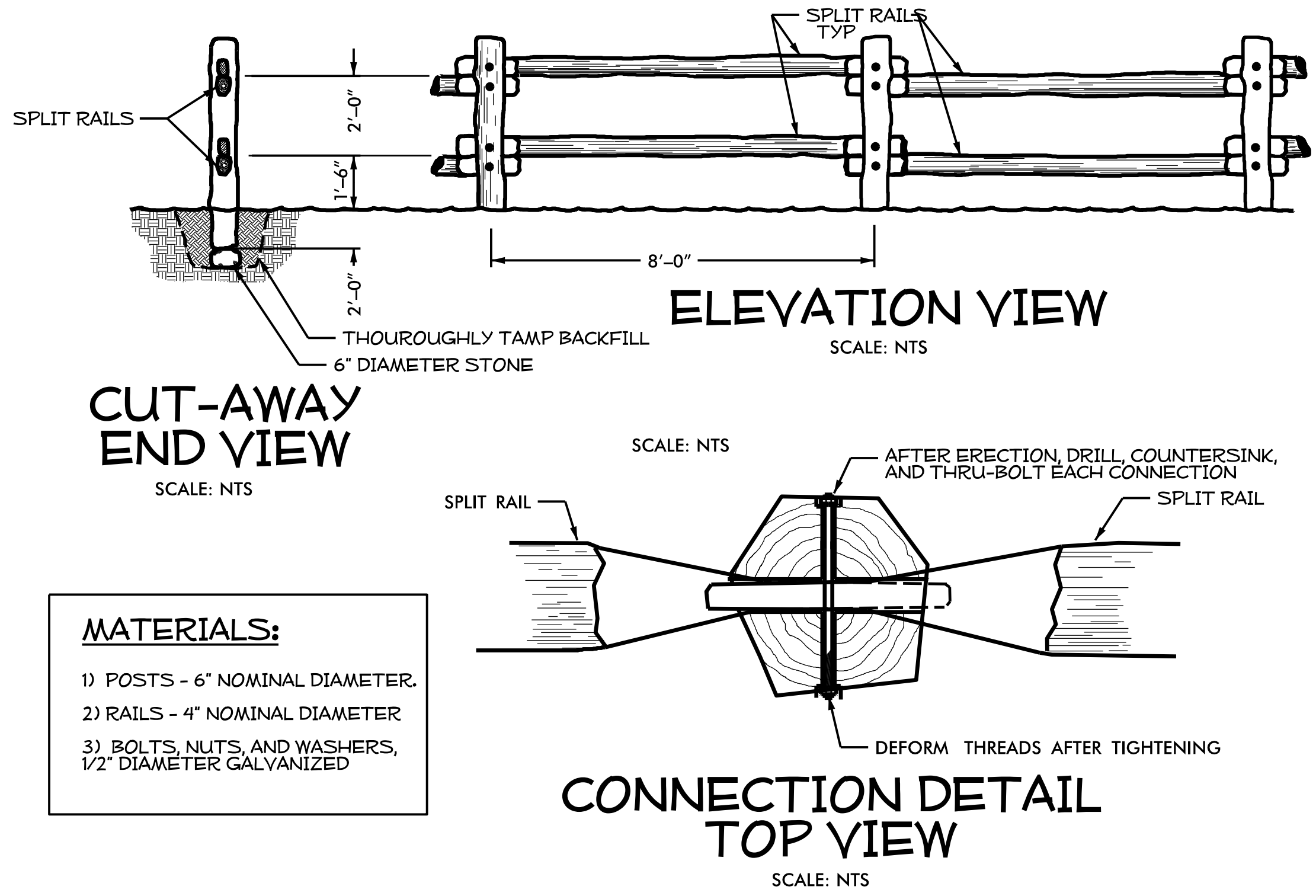
2012 Standard Specifications
Sheet Description
Flagpole & Split Rail Details
Sheet #
LD-05



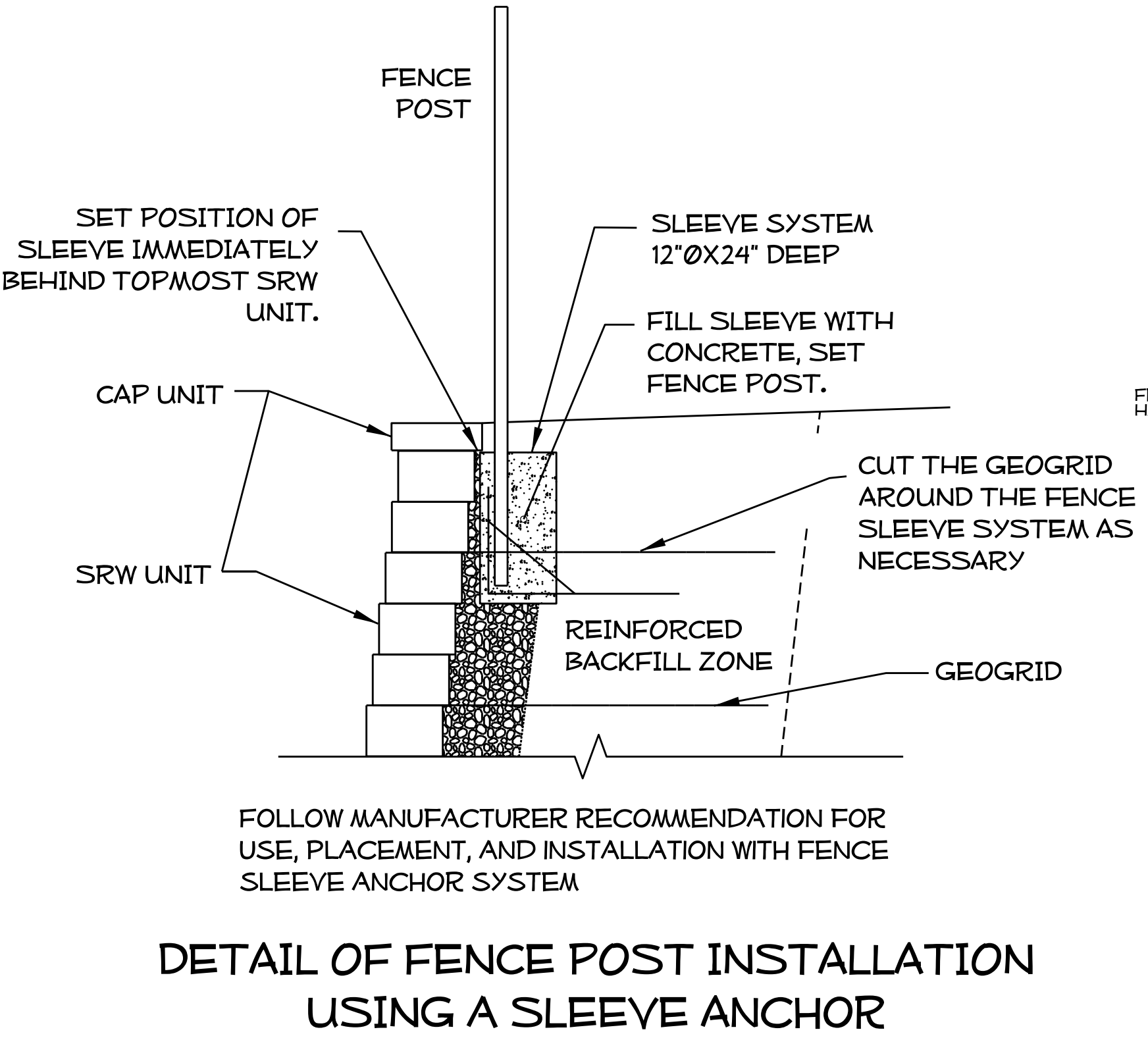
FP LD5

FLAGPOLE

NTS



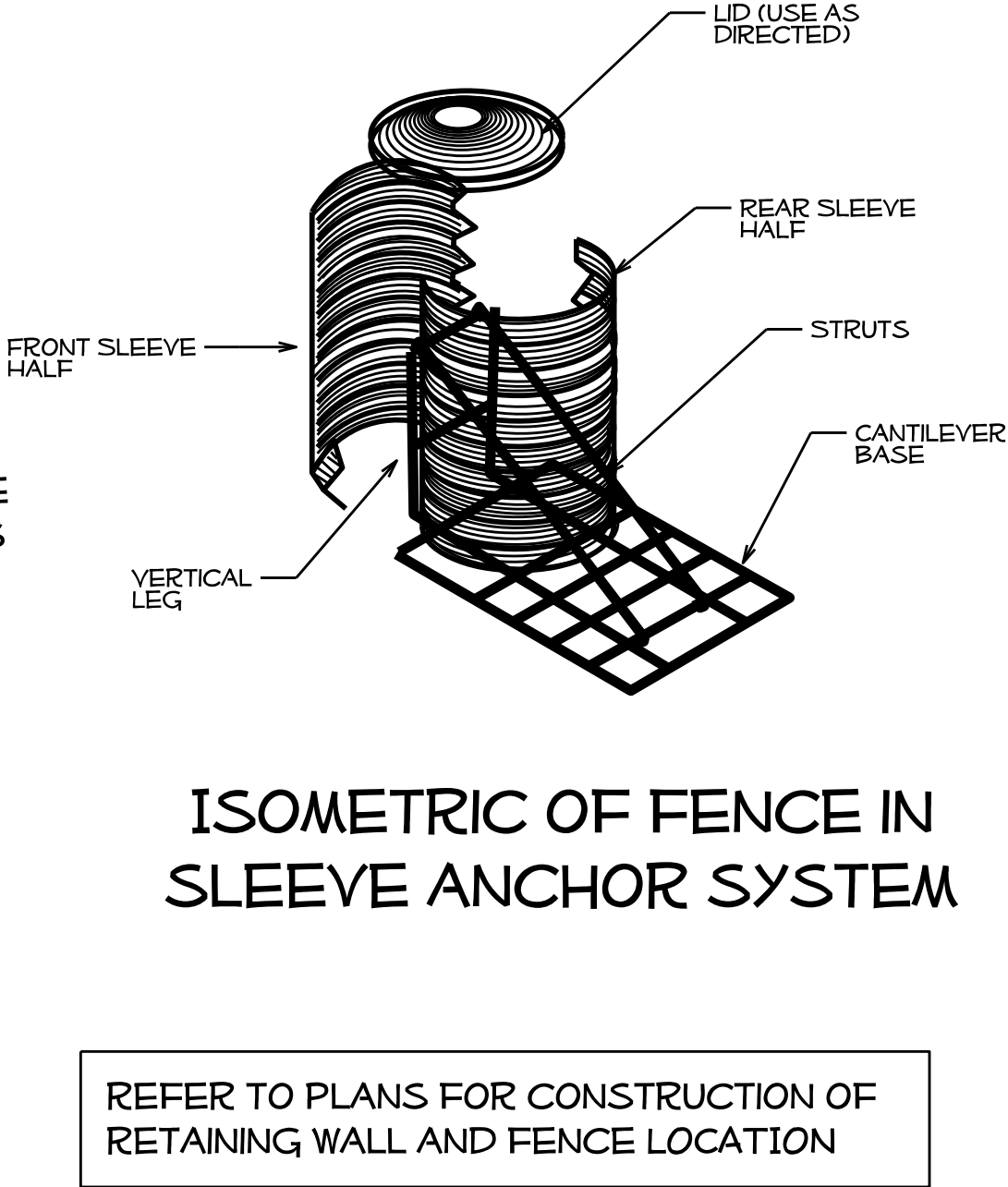
- MATERIALS:**
- 1) POSTS - 6" NOMINAL DIAMETER.
  - 2) RAILS - 4" NOMINAL DIAMETER
  - 3) BOLTS, NUTS, AND WASHERS, 1/2" DIAMETER GALVANIZED



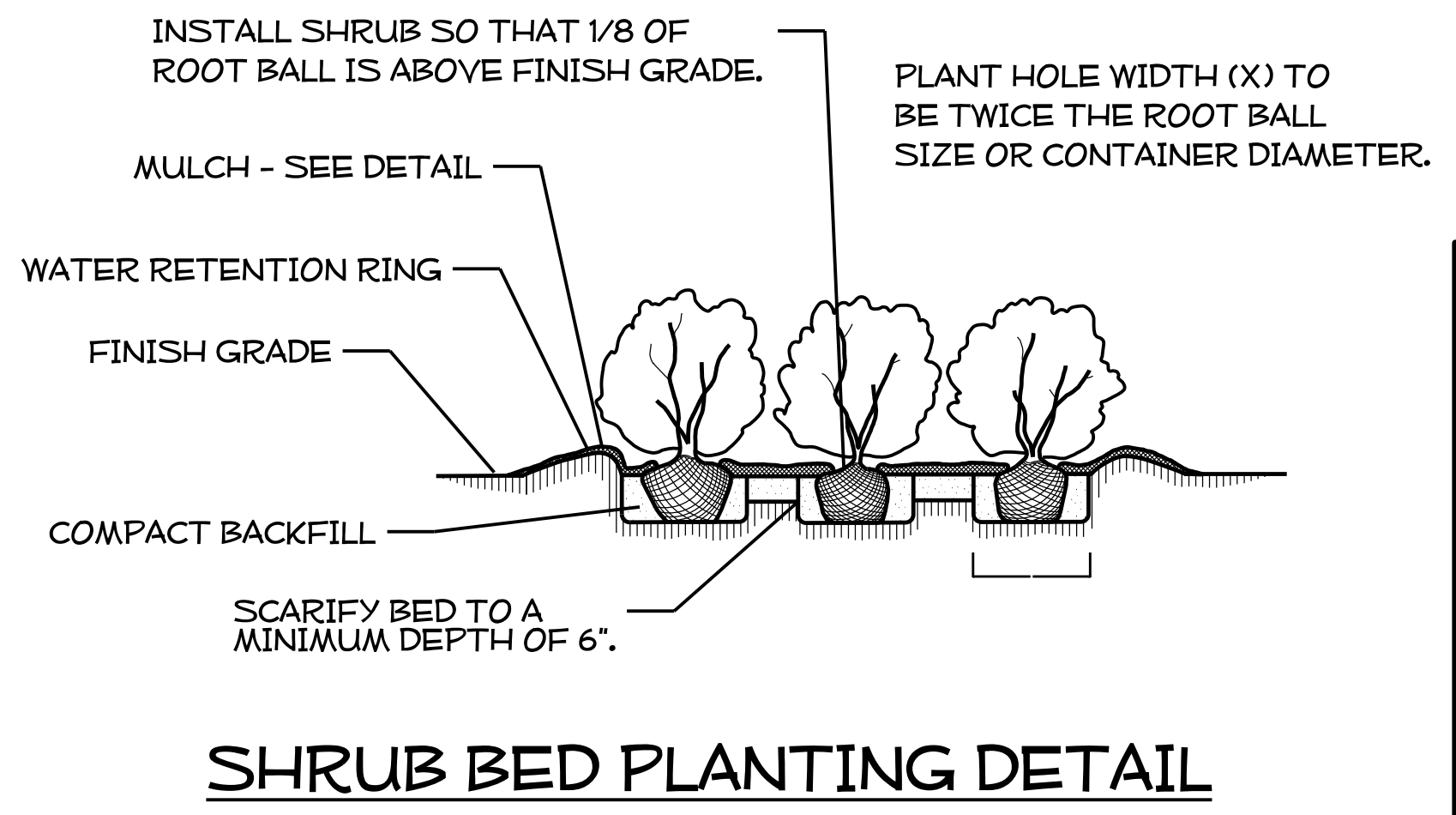
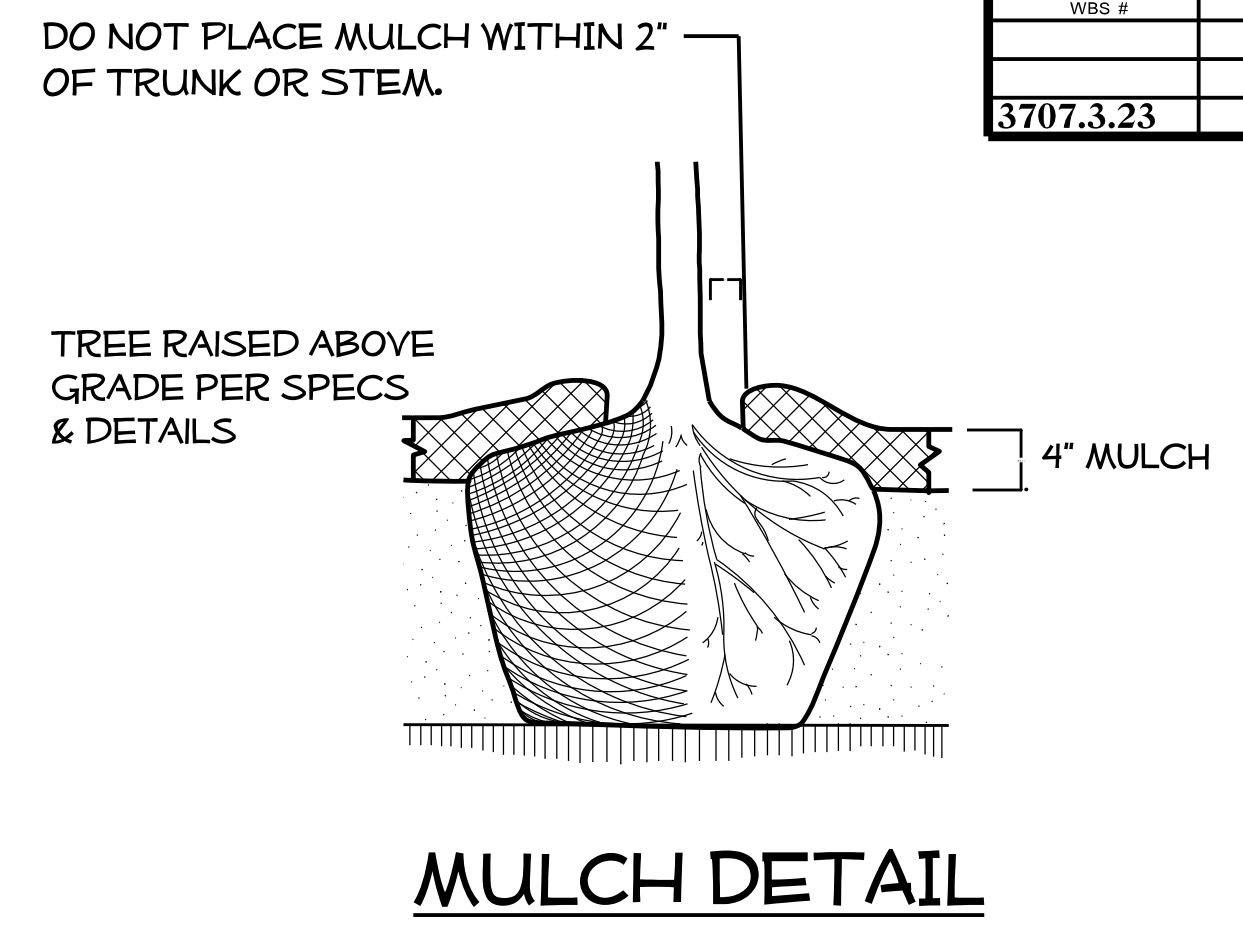
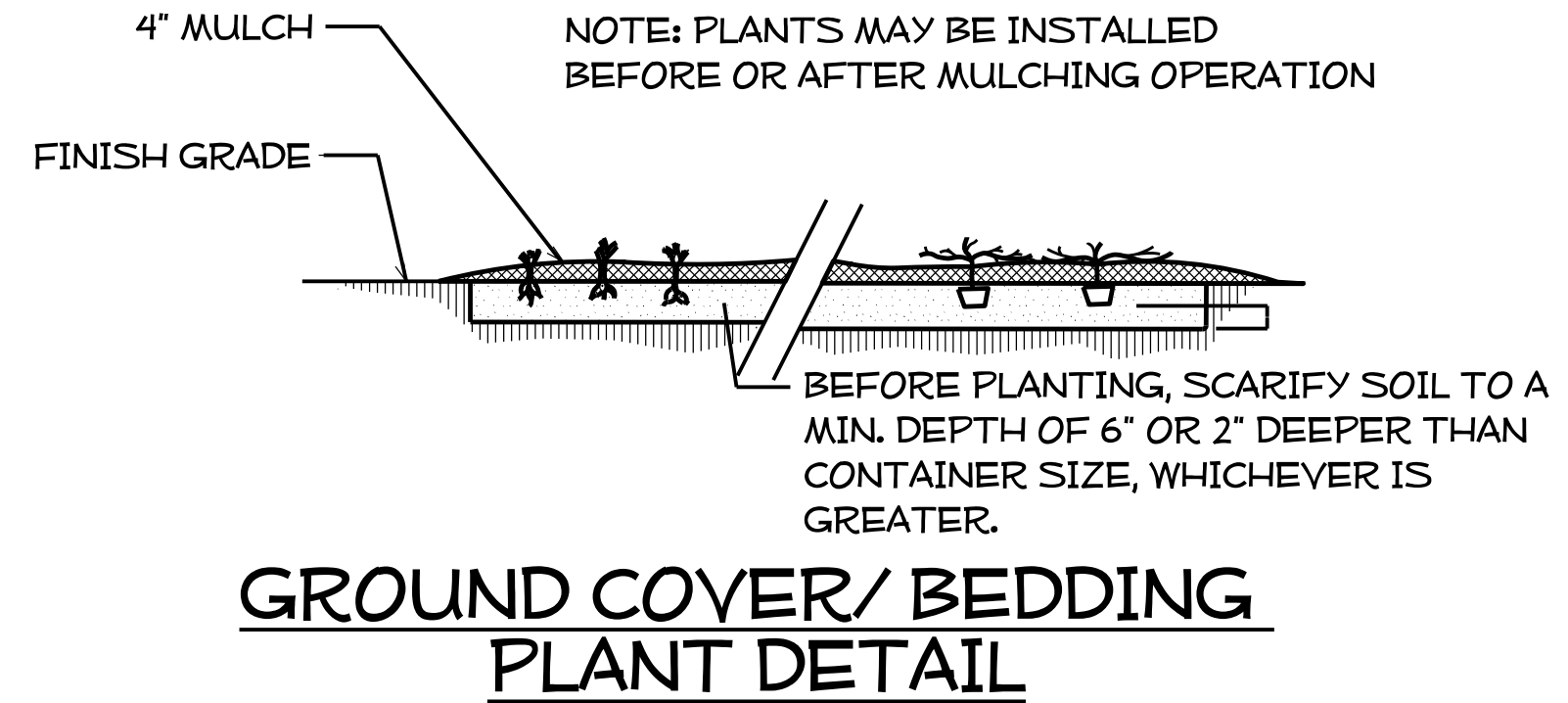
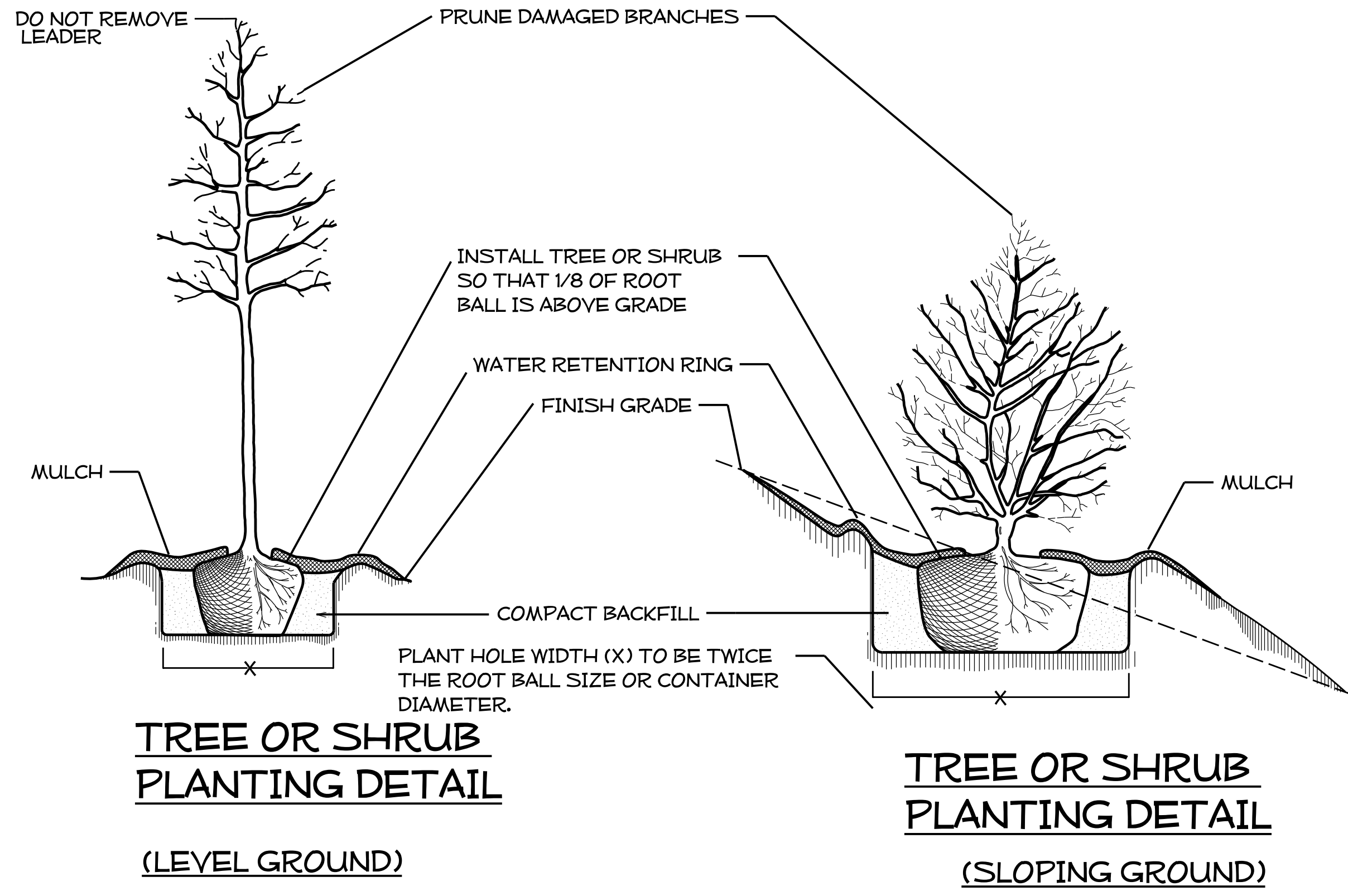
FP LD5

SPLIT RAIL FENCE

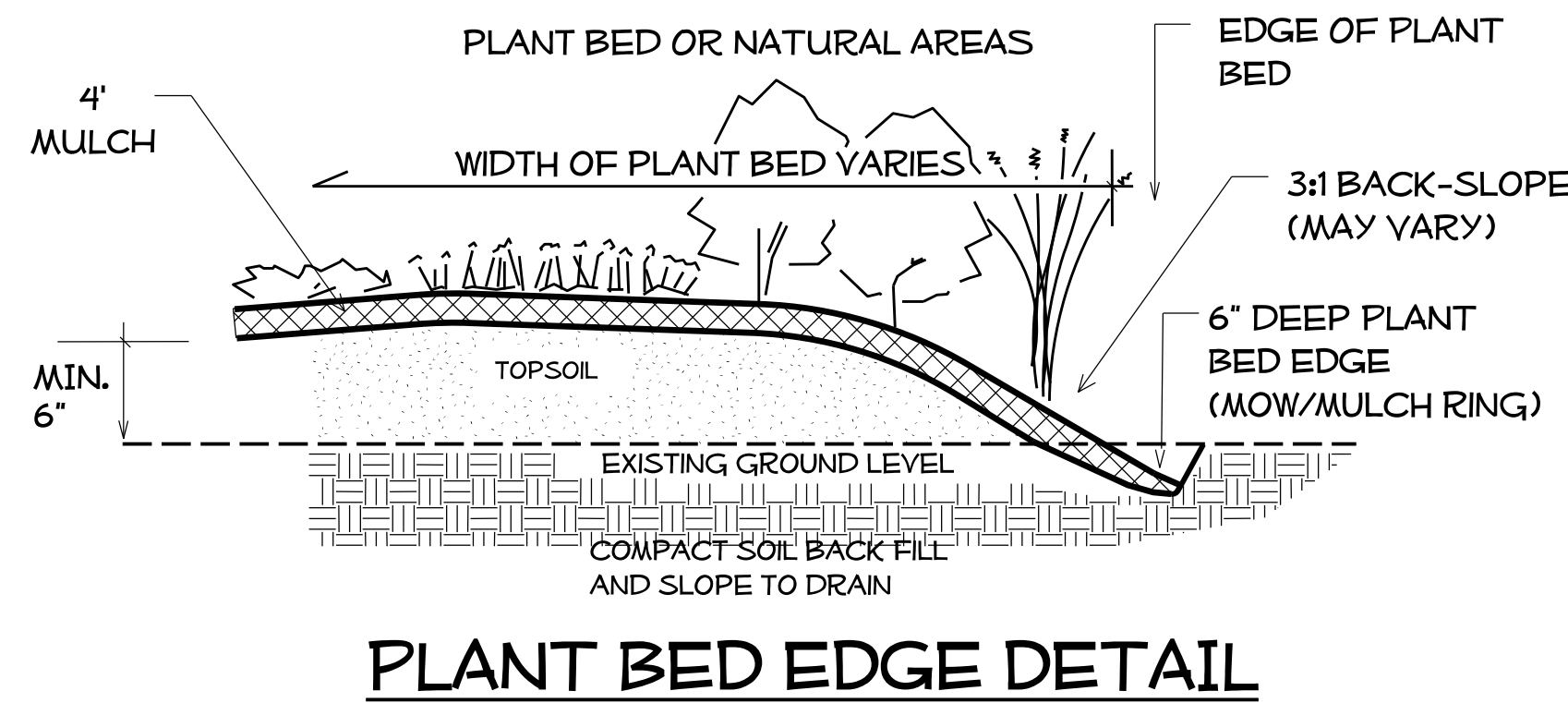
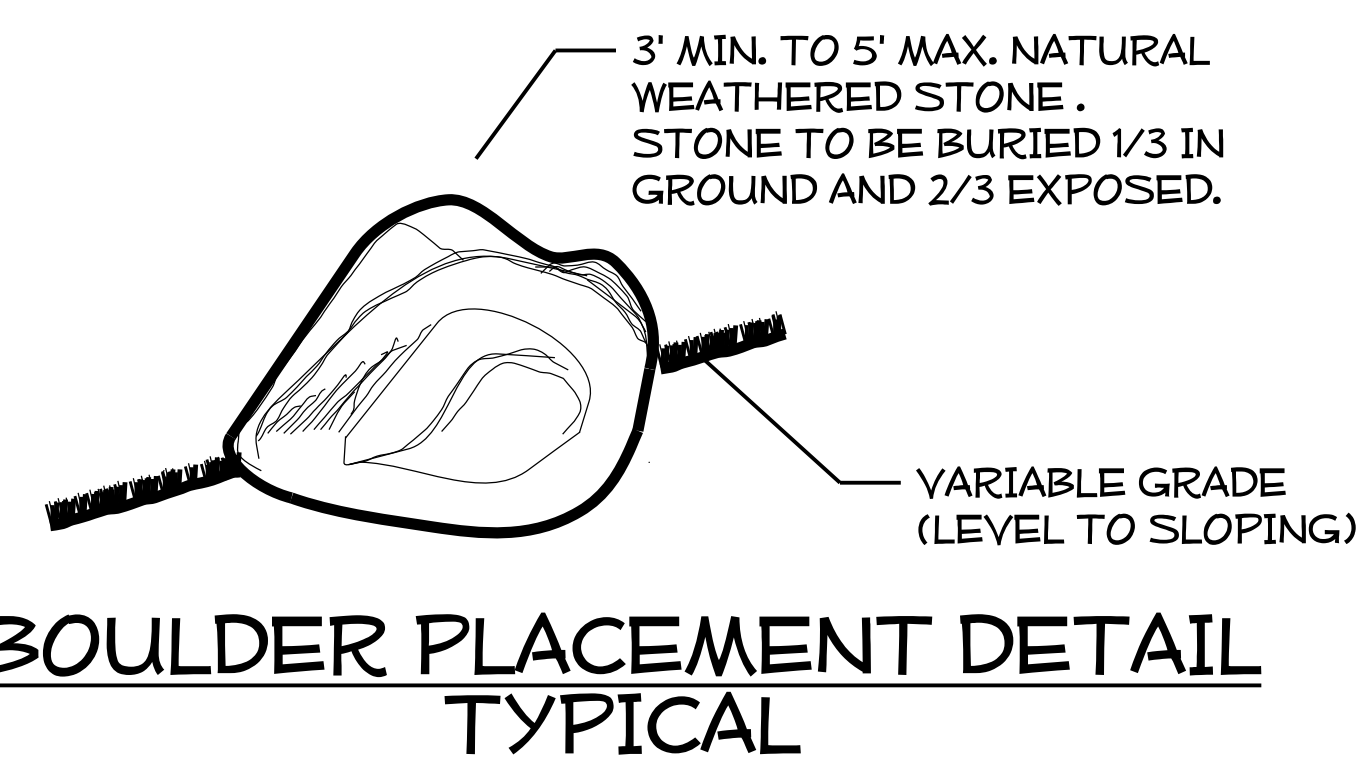
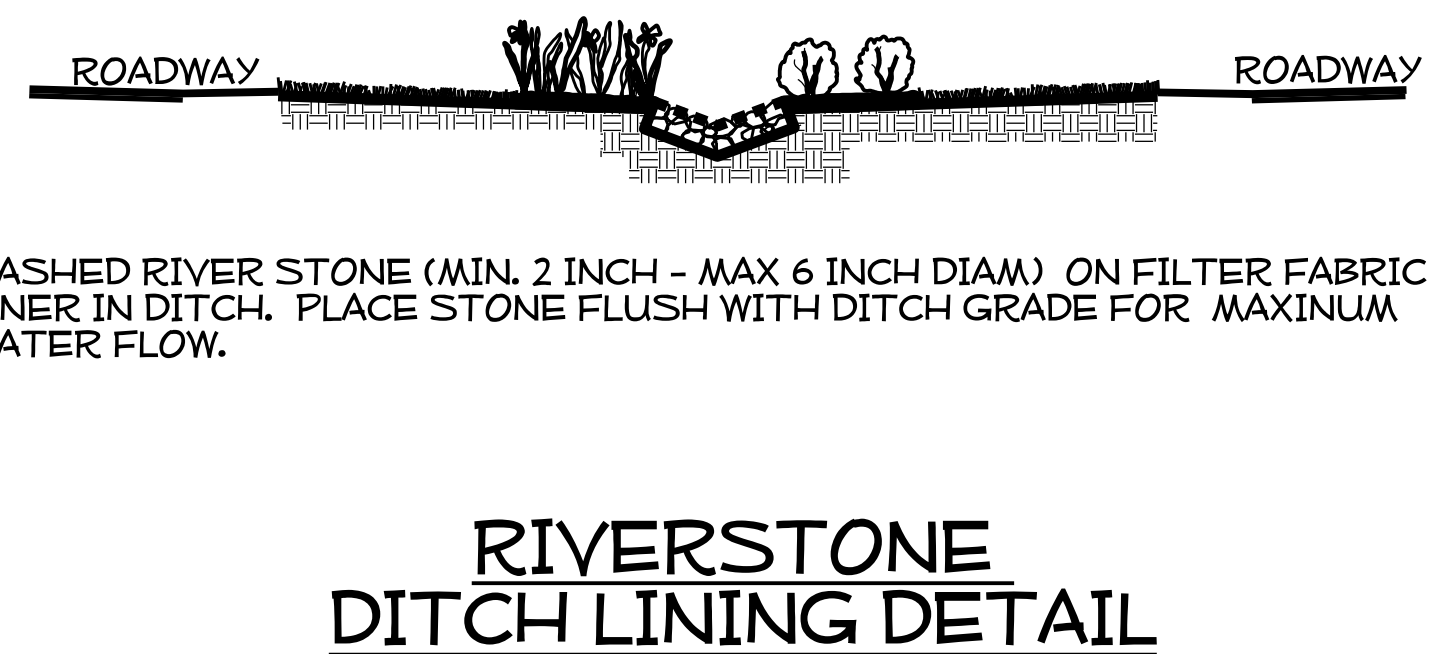
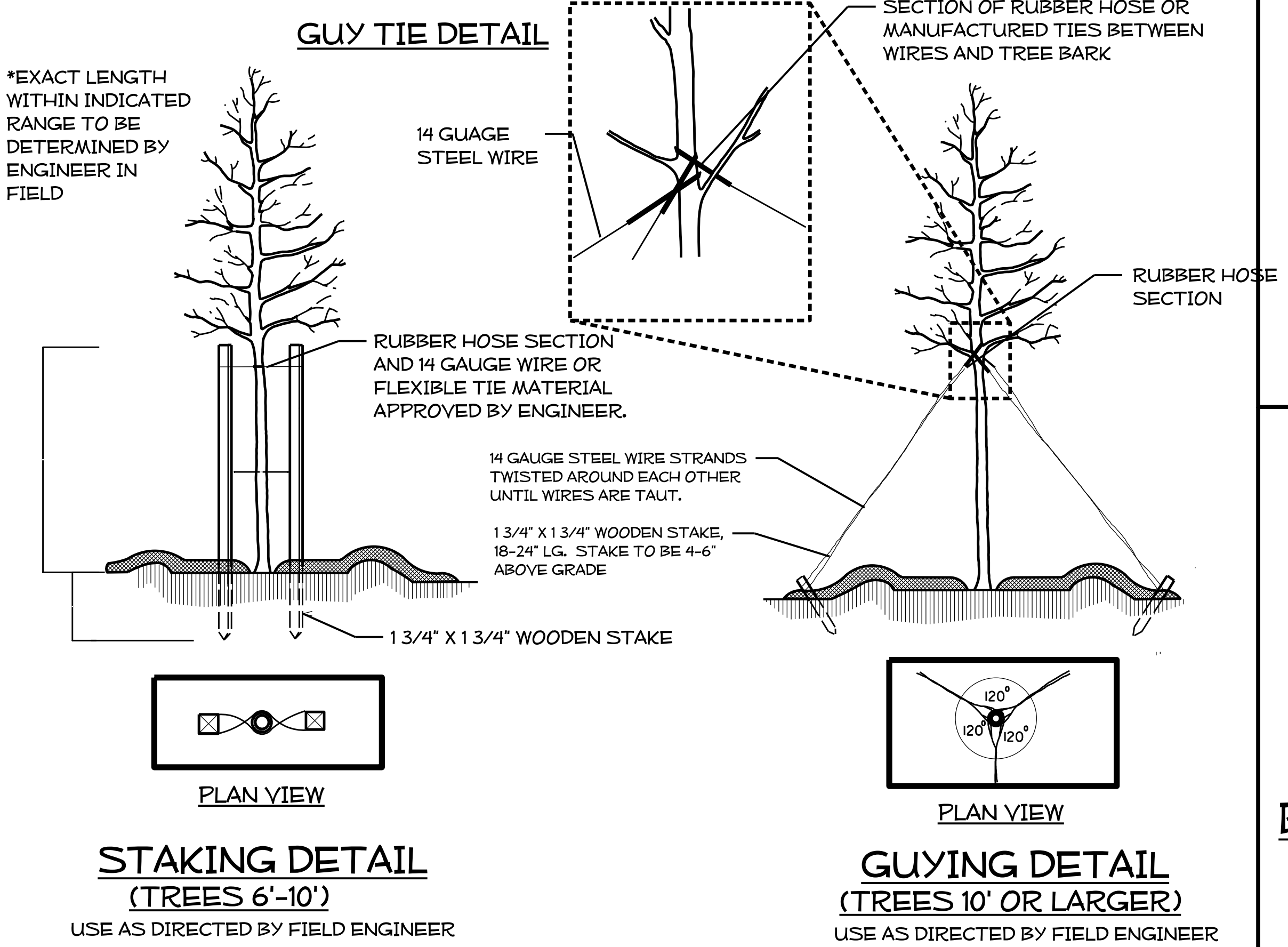
NTS







- NOTES:**
- SCHEDULE FOR PLANT HOLE SIZE: PLANT HOLE WIDTH (X) TO BE TWICE THE ROOT BALL SIZE OR CONTAINER DIAMETER.
  - SEE STANDARD SPECIFICATIONS FOR PLANT BED FUMIGATION AND HERBICIDAL TREATMENT.
  - APPLY FERTILIZER AT PLANTING TIME IN THE FORM OF A SLOW RELEASE PELLET OR TABLET. APPLY AT RATE RECOMMENDED BY MANUFACTURER. BOTH RATE AND FORMULATION MUST BE APPROVED BY FIELD ENGINEER PRIOR TO APPLICATION.
  - REMOVE WIRE BASKET AND FOLD BURLAP BACK FROM TOP OF ROOT BALL BEFORE BACKFILLING IS COMPLETE.
  - ALL PRUNING TO FOLLOW STANDARD ARBORICULTURAL PRACTICES AS SPECIFIED BY INTERNATIONAL SOCIETY OF ARBORICULTURE.
  - DO NOT ATTEMPT TO STRAIGHTEN A TREE THAT HAS BEEN PLANTED AT AN ANGLE WITH THE USE OF STAKING OR GUYING. DIG TREE AND REPLANT TO UPRIGHT POSITION.



STATE NC	T.I.P. #	SHEET #
WBS #	F.A. Project #	Description
		P.E.
		RW
		CONST.
3707.3.23		

North Carolina Department of Transportation

Division of Highways

1 South Wilmington Street Raleigh, North Carolina

1-40 Alamance Co. Rest Areas

Plan: 1447

Plans Drawn By: KOPETSKY

Scale: n/a

Date: 3 / 5 / 15

Letting Date:

2012 Standard Specifications

Sheet Description: Planting Details

Sheet #: LD-06